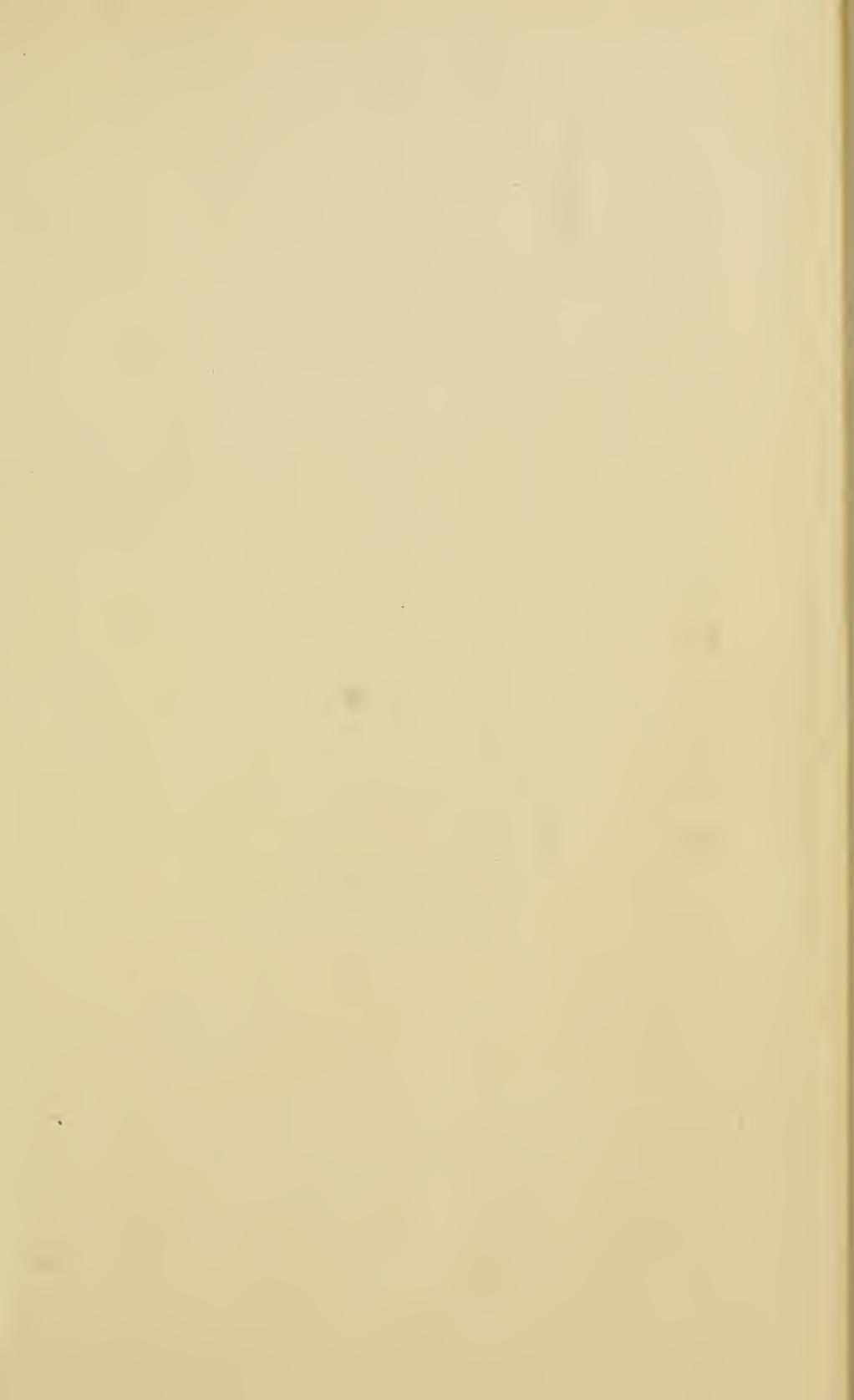


HARVARD
MEDICAL LIBRARY

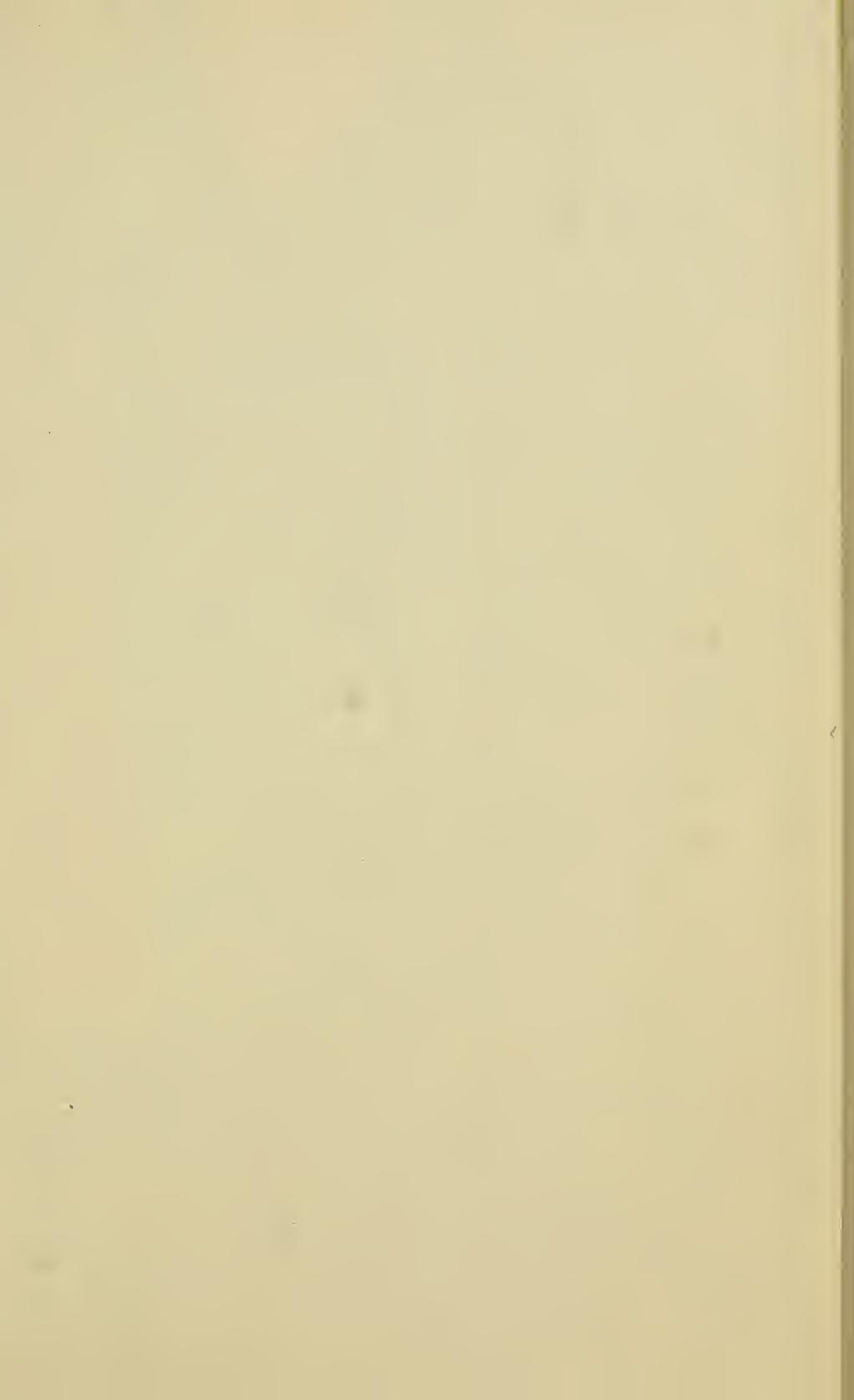


IN THE
Francis A. Countway
Library of Medicine
BOSTON





Digitized by the Internet Archive
in 2012 with funding from
Open Knowledge Commons and Harvard Medical School



OFFICIAL REGISTER OF HARVARD UNIVERSITY

PUBLICATION OFFICE, 13 HOLYOKE STREET, CAMBRIDGE, MASS.

[Entered March 6, 1913, at Boston, Mass., as second-class
matter, under Act of Congress of August 24, 1912]

Issued at Cambridge Station, Boston, Mass., once in January, once in February, once in March, four times in April, three times in May, three times in June, once in July, four times in August, five times in September, twice in November, and once in December.

These publications include the report of the president; the general catalogue issue; the announcements of the College and the several professional schools of the University; the courses of instruction; the pamphlets of the several departments; and the like.

PRINTED IN THE UNITED STATES OF AMERICA
BY THE HARVARD UNIVERSITY PRINTING OFFICE

HARVARD MEDICAL
SCHOOL
AND
SCHOOL OF DENTAL MEDICINE

25 SHATTUCK STREET
BOSTON • MASSACHUSETTS

WITH AN ANNOUNCEMENT FOR 1957-1958



1956-1957

PUBLISHED BY HARVARD UNIVERSITY
CAMBRIDGE, MASSACHUSETTS

CONTENTS

	PAGE
MEDICAL SCHOOL CALENDAR	5
PRESIDENT AND FELLOWS OF HARVARD COLLEGE	9
THE BOARD OF OVERSEERS	10
COMMITTEE TO VISIT THE MEDICAL SCHOOL AND THE SCHOOL OF DENTAL MEDICINE	12
ADMINISTRATIVE OFFICERS	13
ADMINISTRATIVE BOARD	14
HISTORY AND ORGANIZATION	16
BUILDINGS	18
HOSPITAL FACILITIES	19
HOSPITAL APPOINTMENTS	27
SCHOOL OF DENTAL MEDICINE	27
LIBRARIES	28
WARREN ANATOMICAL MUSEUM	29
REQUIREMENTS FOR ADMISSION	30
ADMISSION TO ADVANCED STANDING	33
ADMISSION TO ADVANCED STANDING SCHOOL OF DENTAL MEDICINE	34
INFORMATION FOR SERVICEMEN	34
APPLICATIONS FROM FOREIGN STUDENTS	35
FOREIGN STUDENTS	35
GENERAL REGULATIONS	36
Examinations and Promotion	36
Withdrawal from the School	38
DEGREES	39
HIGHER DEGREES IN THE MEDICAL SCIENCES	40
STUDENT EMPLOYMENT	43
MICROSCOPES	44
FEES AND EXPENSES	45
Dormitory	47
Bond Required of Students	47
Student Health Service	48
FELLOWSHIPS AND SCHOLARSHIPS	49
PRIZES	67
LOAN FUNDS	67
LECTURESHIPS	69
CANCER COMMISSION OF HARVARD UNIVERSITY	69
RESEARCH FUNDS	70
COURSES FOR GRADUATES	71
SCHOOL OF PUBLIC HEALTH	71
OPPORTUNITIES FOR RESEARCH	72
THE UNDERGRADUATE ASSEMBLY	73
DIVISION OF STUDIES	74

CONTENTS

	PAGE
ANNOUNCEMENT OF COURSES	75
Anatomy	76
Physiology	79
Biological Chemistry	81
Bacteriology	84
Pathology	88
Tropical Public Health	92
Pharmacology	92
Legal Medicine	95
Medicine	96
Dermatology	113
Neurology and Psychiatry	114
Neurology	123
Neuropathology	124
Psychiatry	125
Ophthalmology	127
Howe Laboratory of Ophthalmology	128
Radiology	129
Pediatrics	131
Obstetrics	138
Preventive Medicine	142
Surgery	144
Gynecology	155
Orthopedic Surgery	157
Otology and Laryngology	160
Dental Medicine Courses in the Medical School	161
TABULAR VIEW OF SCHEDULES AND REGISTRATION	163
DEGREES CONFERRED IN 1955	168
INTERNSHIPS, CLASS OF 1955	173
STUDENTS ENROLLED IN MEDICAL SCHOOL	178
Summary	198
Colleges Represented	198
Medical Schools Represented	200
ANNOUNCEMENT OF COURSES, SCHOOL OF DENTAL MEDICINE	201
DEGREES CONFERRED IN SCHOOL OF DENTAL MEDICINE IN 1956	210
STUDENTS ENROLLED IN SCHOOL OF DENTAL MEDICINE	211
Summary	213
Colleges Represented	214
Dental Schools Represented	214
PROFESSORS EMERITI	215
TEACHING STAFF	217

HARVARD MEDICAL SCHOOL CALENDAR

Academic Calendar for 1956-1957

<i>Monday</i>	<i>June 4</i>	Summer courses begin for fourth year class.
<i>Wednesday</i>	<i>July 4</i>	Independence Day: a holiday.
<i>Monday</i>	<i>September 3</i>	Labor Day: a holiday.
<i>Friday</i>	<i>September 21</i>	Registration Day for first, second and third year classes.
<i>Monday</i>	<i>September 24</i>	ACADEMIC YEAR begins for first, second and third year classes.
<i>Friday</i>	<i>September 28</i>	Registration for fourth year class.
<i>Monday</i>	<i>October 1</i>	ACADEMIC YEAR begins for fourth year class.
<i>Friday</i>	<i>October 12</i>	Columbus Day: a holiday.
<i>Monday</i>	<i>November 12</i>	Veterans' Day: a holiday.
<i>Thursday</i>	<i>November 22</i>	Thanksgiving Day: a holiday.
<i>Monday</i>	<i>December 10</i>	SECOND TRIMESTER begins for third year class.
<i>December 22, 1956—</i> <i>January 2, 1957</i>		RECESS for first, second and third year classes.
<i>Monday</i>	<i>January 28</i>	SECOND HALF YEAR begins for first and second year classes.
<i>Friday</i>	<i>February 22</i>	Washington's Birthday: a holiday.
<i>Wednesday</i>	<i>March 6</i>	THIRD TRIMESTER begins for third year class.
<i>March 31—April 7</i>		RECESS for third year class.
<i>Monday</i>	<i>April 1</i>	Last day for filing application for the degree of M.D. in June 1957.
<i>April 14-21</i>		Last day for Class of 1961 to file applications for scholarships for 1957-58.
<i>Friday</i>	<i>April 19</i>	RECESS for first and second year classes.
<i>Monday</i>	<i>April 22</i>	Patriots' Day: a holiday.
<i>May 27—June 1</i>		Last day for upper classmen to file applications for scholarships for 1957-58.
<i>Thursday</i>	<i>May 30</i>	Examination Period for first and third year classes.
<i>Friday</i>	<i>May 31</i>	Reading Period for second year class — Comprehensive Examination the following week.
<i>Thursday</i>	<i>June 13</i>	Memorial Day: a holiday, also ALUMNI DAY.
		Class Day for the Class of 1957.
		Commencement.

HARVARD UNIVERSITY

Academic Calendar for 1957-1958

<i>Monday</i>	<i>June 3</i>	Summer courses begin for fourth year class.
<i>Thursday</i>	<i>July 4</i>	Independence Day: a holiday.
<i>Monday</i>	<i>September 2</i>	Labor Day: a holiday.
<i>Friday</i>	<i>September 13</i>	Registration Day for first and second year classes.
<i>Monday</i>	<i>September 16</i>	ACADEMIC YEAR begins for first and second year classes.
<i>Friday</i>	<i>September 20</i>	Registration Day for third year class.
<i>Monday</i>	<i>September 23</i>	ACADEMIC YEAR begins for third year class.
<i>Monday</i>	<i>September 30</i>	Registration for fourth year class—3:00 p.m., C Amphitheatre.
<i>Tuesday</i>	<i>October 1</i>	ACADEMIC YEAR begins for fourth year class.
<i>Saturday</i>	<i>October 12</i>	Columbus Day: a holiday.
<i>Monday</i>	<i>November 11</i>	Veterans' Day: a holiday.
<i>Thursday</i>	<i>November 28</i>	Thanksgiving Day: a holiday.
<i>Monday</i>	<i>December 9</i>	SECOND TRIMESTER begins for third year class.
<i>December 22, 1957-</i> <i>January 5, 1958</i>		RECESS for first, second and third year classes.
<i>Monday</i>	<i>January 27</i>	SECOND HALF YEAR begins for first and second year classes.
<i>Saturday</i>	<i>February 22</i>	Washington's Birthday: a holiday.
<i>March 10</i>		THIRD TRIMESTER begins for third year class.
<i>Tuesday</i>	<i>April 1</i>	Last day for filing application for the degree of M.D. in June 1958.
		Last day for filing applications for scholarships for 1958-59.
<i>April 13-20</i>		RECESS for first, second and third year classes.
<i>Saturday</i>	<i>April 19</i>	Patriots' Day: a holiday.
<i>Thursday</i>	<i>May 1</i>	Last day for upper classmen to file applications for scholarships for 1958-59.

MEDICAL SCHOOL

<i>June 2-7</i>		Examination period for first, second and third year classes.
<i>Friday</i>	<i>May 30</i>	Memorial Day: a holiday <i>also</i> ALUMNI DAY.
<i>Saturday</i>	<i>May 31</i>	Class Day for the Class of 1958.
<i>Thursday</i>	<i>June 12</i>	Commencement.

THE PRESIDENT AND FELLOWS OF
HARVARD COLLEGE

This Board is commonly known as the CORPORATION

PRESIDENT

NATHAN MARSH PUSEY, PH.D., LL.D., L.H.D.

FELLOWS

CHARLES ALLERTON COOLIDGE, A.B., LL.B.

WILLIAM LUKE MARBURY, A.B., LL.B.

RICHMOND KEITH KANE, A.B., LL.B.

THOMAS STILWELL LAMONT, A.B.

FRANCIS HARDON BURR, A.B., LL.B.

TREASURER

PAUL CODMAN CABOT, A.B., M.B.A.

SECRETARY TO THE CORPORATION

DAVID WASHBURN BAILEY, A.B.

THE BOARD OF OVERSEERS

The PRESIDENT and the TREASURER of the University, *ex officio*, and the following persons by election: —

1957

ARTHUR WILSON PAGE, A.B., LL.D.
ELLIOTT DUNLAP SMITH, A.B., LL.B., A.M. (hon.), L.H.D.
MARION BAYARD FOLSOM, A.B., M.B.A., LL.D., D.C.S. (hon.)
CHARLES EDWARD WYZANSKI, JR., A.B., LL.B., LL.D.
JOSEPH WRIGHT ALSOP, JR., A.B.

1958

RALPH LOWELL, A.B., L.H.D., LL.D.
FREDERICK COOLIDGE CRAWFORD, A.B., M.C.E., DR.ENGIN. (hon.).
LL.D., S.D. (hon.)
LAWRENCE TERRY
CHARLES EUSTIS BOHLEN, A.B.
CLARENCE DOUGLAS DILLON, A.B.

1959

DEXTER PERKINS, A.B., PH.D., M.A. (hon.), LL.D., LITT.D.
THOMAS DUDLEY CABOT, A.B., L.H.D., LL.D.
ROY EDWARD LARSEN, A.B., L.H.D., LL.D.
JOSEPH SILL CLARK, JR., S.B., LL.B., LL.D.
JOHN WHITE HALLOWELL, A.B., M.B.A.

1960

GEORGE GUND, A.B., L.H.D.
JOHN PHILLIPS MARQUAND, A.B., LITT.D., L.H.D.
HENRY BROMFIELD CABOT, A.B., LL.B.
MEYER KESTNBAUM, S.B., M.B.A.
DAVID ROCKEFELLER, S.B., PH.D.

(The term expires, in each case, on Commencement Day of the year indicated.)

MEDICAL SCHOOL

1961

CLARENCE COOK LITTLE, A.B., S.M.ZOOL., S.D., LL.D., LITT.D.,
S.D. (hon.)

MALCOLM ENDICOTT PEABODY, A.B., B.D.

ARTHUR AMORY HOUGHTON, JR., L.H.D., LL.D., LITT.D.

HENRY BRADFORD WASHBURN, JR., A.B., PH.D. (hon.)

COURTNEY CRAIG SMITH, A.B., A.M., PH.D.

1962

EDWARD STREETER, A.B.

FREDERIC BENNETT WHITMAN, A.B., M.B.A.

FREDERICK AUGUST OTTO SCHWARZ, A.B., LL.B.

STANLEY MARCUS, A.B.

THOMAS HARRISON HUNTER, A.B., B.A., M.D.

SECRETARY OF THE BOARD OF OVERSEERS

DAVID WASHBURN BAILEY, A.B. 25 Massachusetts Hall, Cambridge

ASSISTANT SECRETARY OF THE BOARD OF OVERSEERS

JAMES ROBBINS REYNOLDS, A.B. 28 Massachusetts Hall, Cambridge

COMMITTEE TO VISIT THE MEDICAL SCHOOL
AND THE SCHOOL OF DENTAL MEDICINE

RALPH LOWELL, *Chairman*
ROBERT CUTLER, *Vice-Chairman*

PAUL B. BEESON
EDWARD L. BORTZ
FRANCIS BOYER
PAUL F. CLARK
SAM L. CLARK
J. WELLS FARLEY
HAROLD C. HODGE
PARKMAN D. HOWE
PHILLIPS KETCHUM
A. LEE LOOMIS, JR.
HENRY H. MEYER

ROLAND E. MORSE
RUSSEL H. PATTERSON
H. IRVING PRATT
JOHN R. QUARLES
SIDNEY R. RABB
HAROLD S. VANDERBILT
JOSEPH T. WALKER, JR.
JOSEPH T. WEARN
GEORGE WHITNEY
ROBERT WINTHROP
WILLIAM E. WOOD

ADMINISTRATIVE OFFICERS OF THE MEDICAL SCHOOL AND SCHOOL OF DENTAL MEDICINE

President: NATHAN MARSH PUSEY, PH.D., LL.D., L.H.D.

Office: 1 Massachusetts Hall, Cambridge.

Dean of the Medical School and of the Faculty of Medicine: GEORGE
PACKER BERRY, M.D., LL.D., S.D. (hon.), LITT.D., L.H.D.

Dean of the School of Dental Medicine: ROY ORVAL GREEP, S.M.,
PH.D.

Associate Dean of the School of Dental Medicine: REIDAR FAUSKE
SOGNNAES, D.M.D.

Assistant Dean of the Medical School: HENRY COE MEADOW, S.B.

Assistant Dean for Student Affairs: JOSEPH WARREN GARDELLA, M.D.

Assistant Dean for Admissions: KENDALL EMERSON, JR., M.D.

Assistant Dean for Courses for Graduates: EUGENE CHARLES EPPINGER,
M.D.

Assistant to the Dean of the Medical School: POWELL MASON CABOT,
A.B.

Financial Assistant to the Dean of the Medical School: EUGENE FRED-
ERICK PIERCE, A.B., M.B.A.

Financial Consultant to the Dean of the Medical School: CHARLES
WHITE GREENOUGH, A.B.

*Chairman of the Division of Medical Sciences of the Faculty of Arts
and Sciences:* ERIC GLENDINNING BALL, PH.D., S.D. (hon.).

Director of the Health and Medical Care Program for Students:
DONALD ASA TUCKER, M.D.

Office hours, daily, except Saturday afternoons, Sundays, and
holidays, 8:30-9:45 a.m. and 1:00-2:00 p.m., Peter Bent Brigham
Hospital. Telephone: BEacon 2-8000.

Registrar: DOROTHY A. MURPHY.

Alumni Director: THOMAS HINCKLEY LANMAN, M.D.

The Offices of Administration of the Medical School and the School
of Dental Medicine are located in the Administration Building.

The Bursar's Office is in Lehman Hall, Cambridge. It is open on all
business days from 9:00 a.m. to 5:00 p.m., except Saturdays, for the
receipt of fees, payments, and other financial business.

ADMINISTRATIVE BOARD OF THE FACULTY OF MEDICINE

- NATHAN M. PUSEY, Ph.D., LL.D., L.H.D., *President of the University (ex officio).*
- GEORGE P. BERRY, M.D., LL.D., S.D. (hon.), Litt.D., L.H.D., *Dean of the Faculty of Medicine and Professor of Bacteriology (ex officio).*
- ROY O. GREEP, S.M., Ph.D., *Dean of the School of Dental Medicine and Professor of Anatomy in the School of Dental Medicine (ex officio).*
- REIDAR F. SOGNNAES, D.M.D., *Associate Dean of the School of Dental Medicine and Charles A. Brackett Professor of Oral Pathology (ex officio).*
- HENRY C. MEADOW, S.B., *Assistant Dean of the Faculty of Medicine and Executive Secretary to the Committee on Research and Development (ex officio).*
- JOSEPH W. GARDELLA, M.D., *Assistant Dean for Student Affairs and Research Associate in Medicine (ex officio).*
- KENDALL EMERSON, JR., M.D., *Assistant Dean for Admissions and Assistant Clinical Professor of Medicine (ex officio).*
- EUGENE C. EPPINGER, M.D., *Assistant Dean for Courses for Graduates and Assistant Clinical Professor of Medicine (ex officio).*
- DONALD A. TUCKER, M.D., *Director of the Health and Medical Care Program for Students and Instructor in Medicine (ex officio).*
- RAYMOND D. ADAMS, M.D., *Bullard Professor of Neuropathology.*
- BENJAMIN ALEXANDER, M.D., *Associate Professor of Medicine at the Beth Israel Hospital.*
- LOUIS K. DIAMOND, M.D., *Associate Professor of Pediatrics at the Children's Hospital.*
- EDWIN B. DUNPHY, M.D., *Henry Willard Williams Professor of Ophthalmology at the Massachusetts Eye and Ear Infirmary.*
- J. ENGLEBERT DUNPHY, M.D., *Professor of Surgery.*
- MONROE D. EATON, M.D., *Associate Professor of Bacteriology and Immunology.*
- OTTO KRAYER, M.D., A.M. (hon.), *Charles Wilder Professor of Pharmacology.*
- EUGENE M. LANDIS, M.D., Ph.D., *George Higginson Professor of Physiology.*
- ERICH LINDEMANN, Ph.D., M.D., *Professor of Psychiatry.*

MEDICAL SCHOOL

- DUNCAN E. REID, M.D., *William Lambert Richardson Professor of Obstetrics.*
- JAMES H. SHAW, PH.D., *Associate Professor of Biological Chemistry in the School of Dental Medicine.*
- CLAUDE A. VILLEE, JR., PH.D., *Assistant Professor of Biological Chemistry.*
- PAUL C. ZAMECNIK, M.D., *Director of the J. Collins Warren Laboratories of the Huntington Memorial Hospital and Collis P. Huntington Professor of Oncologic Medicine.*

HARVARD MEDICAL SCHOOL BOSTON

HISTORY AND ORGANIZATION

The Harvard Medical School was the third to be established in the United States and is the second oldest in point of consecutive years of service to medical education.

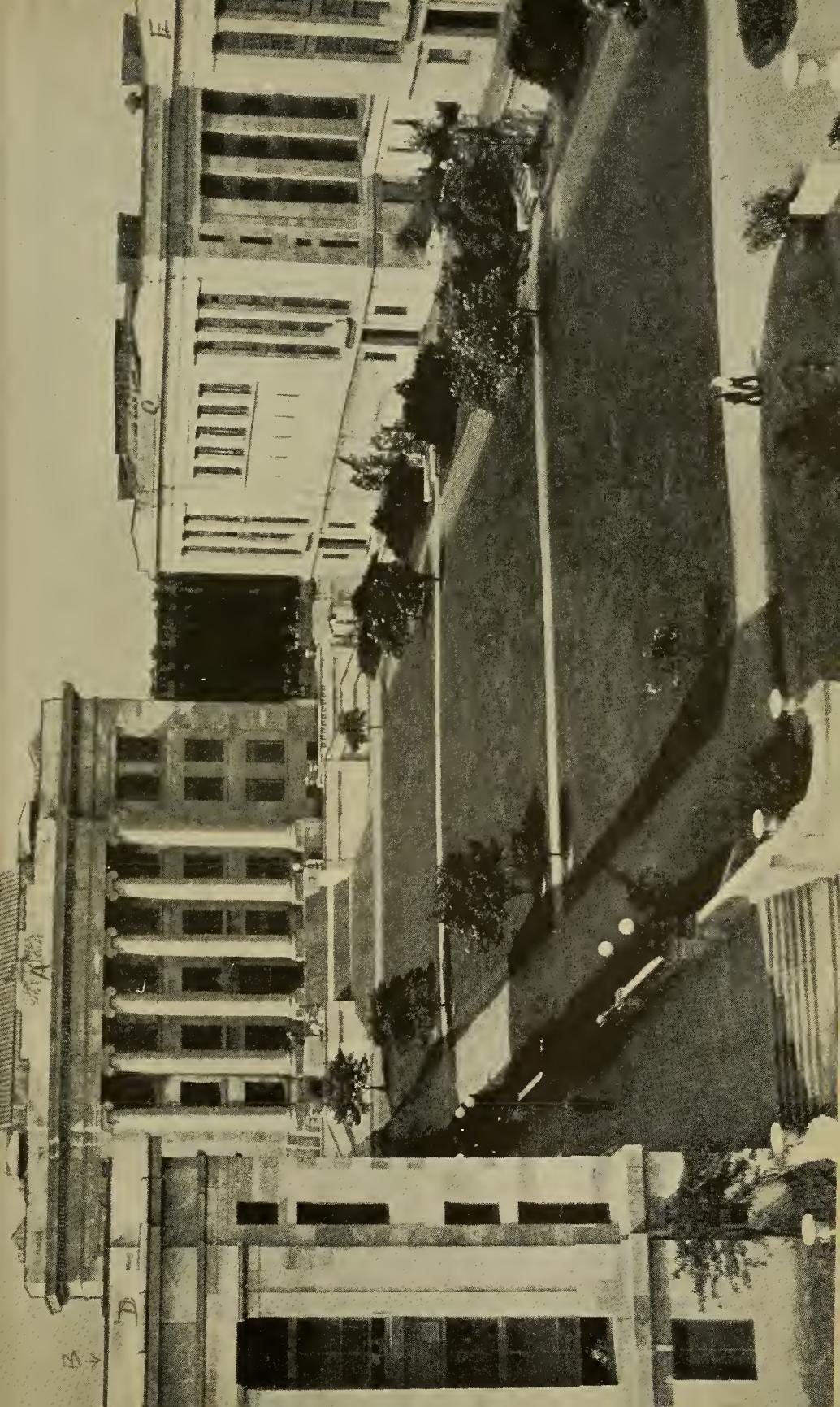
The first Medical School founded in the Colonies was in 1765 in the College of Philadelphia, now the University of Pennsylvania. In 1767 there was organized in Kings College (now Columbia University) a second Medical School. The curriculum of the latter School was suspended in 1776.

The Harvard Medical School is now nearing the close of its second century of teaching dedicated to the treatment and prevention of the ills of man.

On September 19, 1782 the President and Fellows of Harvard College adopted a report by President Joseph Willard and former Acting President Edward Wigglesworth embodying a plan for a medical school. This action was followed on November 22, 1782 by the appointment of Dr. John Warren of Boston as the first Professor of Anatomy and Surgery. In December, 1782, Dr. Benjamin Waterhouse became Professor of the Theory and Practice of Physic. The original faculty was completed in May, 1783, when Dr. Aaron Dexter was named Professor of Chemistry and Materia Medica.

The first degrees of Bachelor of Medicine were conferred in 1788. Until 1811, the degrees of Bachelor of Medicine and Doctor of Medicine were conferred, the former on graduation from the Medical School, the latter on examination at least seven years after graduation. In 1811 the degree of Doctor of Medicine was granted to graduates of that year and to earlier graduates who had not been admitted to it. All graduates since 1811 have received the degree of Doctor of Medicine.

During its long history, the Medical School has occupied seven different sites. First meetings of the classes were held in the basement of Harvard Hall in the Harvard Yard. In 1783 classes were



E

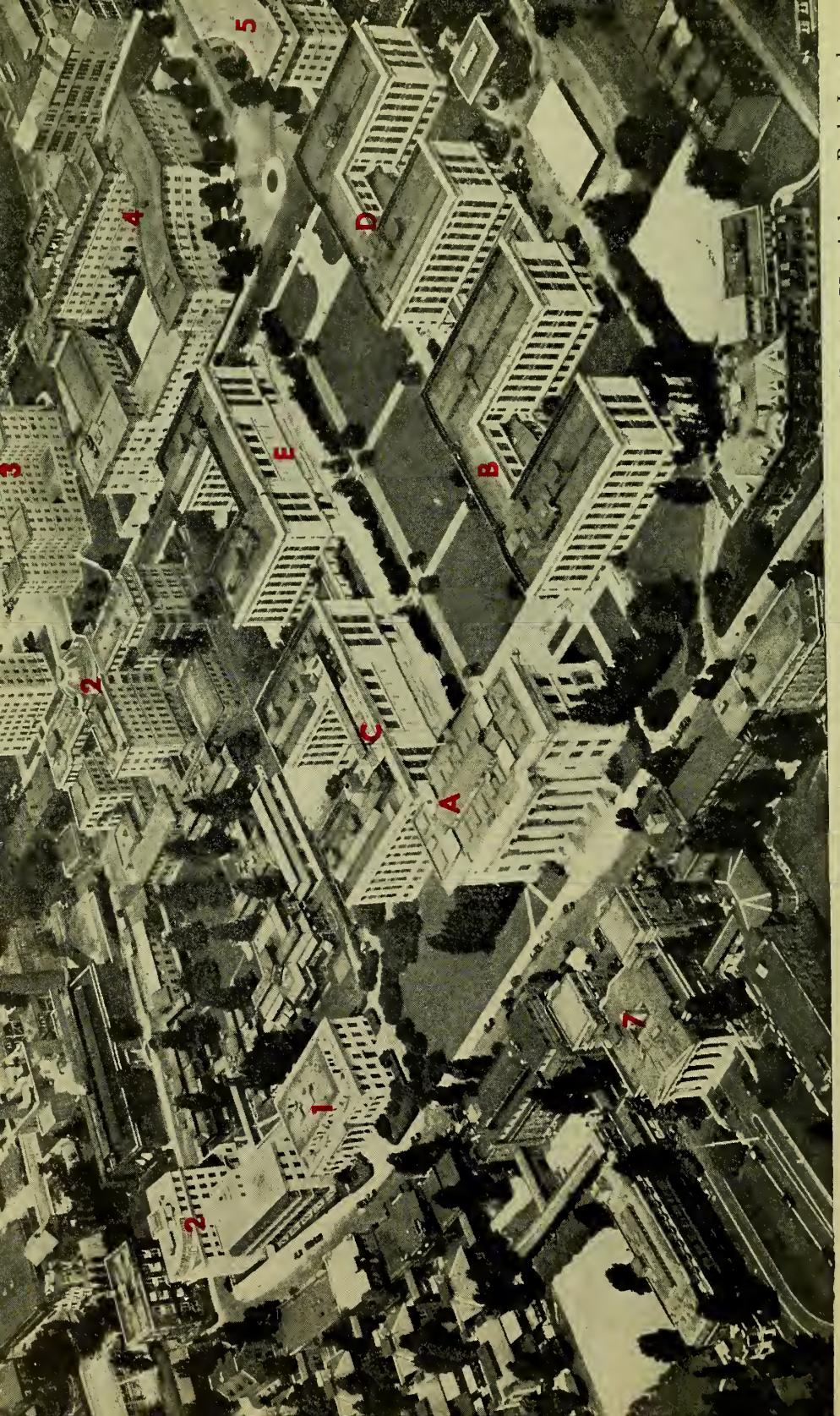
C

L

A

D

B



A, B, C, D, E. Harvard Medical School buildings. 1. Harvard School of Public Health. 2. Children's Hospital. 3. Beth Israel Deaconess Hospital. 4. Brigham & Women's Hospital. 5. Massachusetts General Hospital.

MEDICAL SCHOOL

transferred next door to Holden Chapel, now the home of the Harvard Glee Club. To be close to such hospital facilities as might be developed in Boston, the Medical School, in 1810, moved out of the Yard to quarters at 49 Marlborough Street (now 400 Washington Street) in Boston. Six years later, the Medical School occupied the first structure built especially for its use, located on Mason Street in Boston. At this time, and for a period of 42 years thereafter, the School bore the title of "The Massachusetts Medical College of Harvard University."

In 1847, the Medical School again moved to new quarters at North Grove Street opposite the Massachusetts General Hospital. The next relocation of the School, in 1883, was at 688 Boylston Street. This, it was expected, would be the "home of medicine for generations." The School's vigorous growth soon made these quarters inadequate. Accordingly, new — and current — buildings were erected on Longwood Avenue. At their dedication on September 25, 1906, Dr. Charles W. Eliot, President of the University, in his acceptance address, described them as: "The largest single addition to the resources of the University which has ever been placed in the hands of the Corporation since it received its charter in 1650."

The present Medical School occupies 11 acres of an original 26 acre tract. The remaining 15 acres were reserved at the time for the hospital facilities that, it was expected, would be built around the School. Four hospitals and the Harvard Schools of Dental Medicine and Public Health are now located in this general area.

Five main buildings comprise the current Medical School. One houses the Library, Anatomical Museum and the administrative offices. Four others house the School's academic departments with extensive facilities for laboratory and clinical instruction and for research.

Prior to 1906 most clinical teaching was carried on in the Massachusetts General and Boston City Hospitals. Opportunities for clinical teaching have increased greatly, since the Longwood Quadrangle was established, through the new hospitals surround-

HARVARD UNIVERSITY

ing the School and affiliated with it. Currently, no other medical school either in the United States or abroad can offer to its students the tremendous variety of clinical opportunities for teaching and investigation. Clinical advantages, from the student viewpoint, are not a matter of large hospitals only, but rather are related to the number of patients in these hospitals who are under the care of instructors on the staff of the Medical School and thus available for teaching purposes. Each student comes into intimate contact, under supervision, with patients in these hospitals, beginning in the second half of the second year. This student-patient relationship grows steadily during the third year. In the fourth year students serve as clinical clerks and give their whole time to the study of patients.

BUILDINGS

The Administrative Building (A), with over 40,000 square feet of floor space, contains the Faculty Room, the Deans' Offices of the Medical School and School of Dental Medicine, the Alumni Office, the Courses for Graduates Office, the joint library of the Medical School and the School of Public Health, Women Students Club Room, and the Warren Museum.

The laboratory buildings, designated by the letters B, C, D, and E, are all constructed on the same general plan. Each consists of two parallel wings united at the front by an amphitheatre with a seating capacity of two hundred and fifty. Both the smaller rooms and the laboratories are designed on a unit system which greatly simplifies the changes required in suiting these to the needs of departments whose methods of teaching have changed since the rooms were originally designed.

The amount of floor space varies considerably in each of the four buildings, but the design is such that this variation is not apparent from the main quadrangle.

Building B accommodates the Department of Anatomy, Histology, and Embryology. The wings each have three floors and a total floor space of over 62,000 square feet.

Building C provides space for the Departments of Physiology,

MEDICAL SCHOOL

Biochemistry, and Experimental Surgery. In this building each wing has four floors and a total floor space of 72,000 square feet.

Building D is occupied by the Departments of Bacteriology, Biophysics, Pathology, Preventive Medicine, the Division of Medical Sciences, and also laboratories of the Department of Medicine. In this building there are five floors in one wing and three floors in the other, with a total floor space of over 72,000 square feet. The amphitheatre in this building has recently been renovated and is air-conditioned for student comfort. There are animal houses between Buildings B and D and between Buildings C and E.

Building E houses Pharmacology, Legal Medicine, and Tropical Public Health. There are three floors in one wing and four floors in the other, with a floor space of 50,000 square feet.

The clinical departments are housed in the various hospitals associated with the School. Vanderbilt Hall (4), the dormitory for male medical students, is immediately adjacent to the Medical School buildings.

HOSPITAL FACILITIES

THE MASSACHUSETTS GENERAL HOSPITAL

This general hospital, founded in 1811, in great part owes its existence to the foresight and ambition of two Harvard College graduates, Dr. John Warren, who became the first Surgeon-in-Chief, and Dr. James Jackson, the first Physician-in-Chief. Dr. Warren, in 1782, was named the first Professor of Anatomy and Surgery in the Medical School.

In a circular letter addressed (August, 1810) "to the most influential and wealthy citizens of Boston," Drs. Warren and Jackson noted the benefits that would accrue to the ill of the community through establishment of a hospital, and to the collateral advantages that would follow.

Among the latter, they wrote, "are the facilities for acquiring knowledge which it (the hospital) would give to the students in the medical school (Harvard) established in this town."

In 1811 the Massachusetts Legislature approved an Act to "in-

HARVARD UNIVERSITY

corporate certain persons, by the name of the Massachusetts General Hospital." The list of incorporators read much as a "Who's Who" of early America. Prominent in the list were the names of John Adams and John Quincy Adams.

The original charter sets out that the hospital was to care for the sick and insane persons of the Commonwealth.

The close and salutary relationship established at the outset between the Medical School and the Hospital has continued to the present.

In the Hospital there are services in medicine, surgery, pediatrics, dermatology, genito-urinary diseases, orthopedics, gynecology, neurology, neurosurgery, anaesthesia and psychiatry, all of which are used in giving instruction in these special departments of medicine. The hospital has 889 beds, 451 of them being available for teaching purposes. In the General Hospital, 10,521 patients were admitted in 1954. Large clinics are also used for instruction in the above clinical subjects. Clinic visits numbered 181,774 last year, of which 15,226 were first visits of new patients. 21,216 patients were treated in the emergency ward. Laboratories for pathology, bacteriology, chemistry, metabolism, medical and surgical research, and X-ray are maintained, and there is an excellent medical library, all of which are open to students in the Medical School.

In 1942 arrangements were made with the Vincent Memorial Hospital and the Hall-Mercer Hospital to care for their patients in the Massachusetts General Hospital. The Vincent occupies the three lower floors of the Vincent-Burnham Building, the three top floors comprising the Burnham Memorial for Children.

In 1943 the Collis P. Huntington Memorial Hospital and its associated laboratories of the Harvard Cancer Commission were transferred from their former location adjacent to the Medical School to the buildings of the Massachusetts General Hospital.

THE MASSACHUSETTS EYE AND EAR INFIRMARY

This hospital has out-patient clinics and 190 beds, both ward and private, most of which are available for instruction in dis-

MEDICAL SCHOOL

eases and conditions of the eye, ear, nose and throat. The two Chiefs of Service are Professors on the Faculty of the Medical School. The out-patient clinics serve ambulatory medical and surgical patients and during the past year recorded 64,347 clinic visits. Of the 7,067 patients admitted to the hospital, 6,620 or 94 per cent came for surgery. The hospital has X-ray, bacteriology and pathology departments, and the Howe Laboratory of Ophthalmology is located within its walls. Research activities are housed in a three-story wing opened in 1956. Included in the \$1,000,000 addition are 14 research laboratories. The relationship between the Medical School and the Infirmary dates back to 1866.

MCLEAN HOSPITAL

This hospital, situated in Waverley, is a department of the Massachusetts General Hospital for the care and treatment of patients with nervous or mental disorders. McLean Hospital was the first hospital in New England and is the third oldest mental hospital in the United States. It has a capacity of 232 beds and has been a teaching hospital connected with the Harvard Medical School for many years. During the past year 309 patients were admitted to the hospital and 271 patients were discharged. It is well equipped with laboratories for research in clinical physiology, neuropathology and biochemistry.

THE BOSTON CITY HOSPITAL

This hospital with all its divisions contains 2,442 beds, including 154 bassinets for newborn and 196 cribs for children. Of these beds 1,601 are in the main hospital. Over 300 are available to the teaching units of the Medical School. The Second and Fourth Medical Services, the Fifth Surgical Service, and the Neurological, Neurosurgical and Radiological Services are under the direction of Professors of the Harvard Medical School, and in addition there are other specialties open to our students. In the Out-Patient Department and Accident Floor 79,969 patients applied for diagnosis and treatment during the year 1955.

The Thorndike Memorial Laboratory, established in 1923 for

HARVARD UNIVERSITY

medical research, includes a metabolism ward and is an integral part of the Harvard Medical Unit. It is an internationally known center of medical investigation in the treatment of blood disorders, infectious diseases and disorders of the liver, kidney, thyroid and heart. The Sears Surgical Laboratory, established in 1955 as part of the Harvard Surgical Unit, is associated with the Fifth Surgical Service under the direction of the Professor of Surgery who is Head of that Service. It provides a modern amphitheatre, conference rooms, animal quarters, library, and laboratories for surgical research. The Departments of Neurology and of Pathology also maintain active research laboratories. In addition there are well-equipped service laboratories for pathology, chemistry, metabolism, and immunology. Four amphitheatres and various conference rooms are used in student instruction. The hospital maintains an admirable general working library and two special libraries.

THE PETER BENT BRIGHAM HOSPITAL

This hospital has been closely associated with the Medical School since its dedication in 1913. The hospital, equipped for teaching and research in physical diagnosis, medicine, surgery and radiology, is situated on grounds adjacent to the Medical School buildings. The Chiefs of Services are Professors of the Faculty of the Medical School. There are 280 beds, all of which are used for teaching purposes. During the past year, 6,278 patients were admitted. There is also maintained an out-patient service for ambulatory medical and surgical patients. The total number of visits was 53,219. There are well-equipped medical, surgical, and pathological laboratories.

THE BETH ISRAEL HOSPITAL

This is a general hospital with a capacity of 457 beds (including 30 pediatric, 72 obstetrical, and 91 bassinets); of these beds 150 are constantly available for teaching. In addition to the ward beds many private beds are available for teaching. Incorporated

MEDICAL SCHOOL

in 1916, this institution has been located on Brookline Avenue around the corner from the Harvard Medical School since 1928 and has a close working relationship with it. The hospital is equipped for teaching and research in medicine, surgery, pathology, pediatrics, psychiatry and radiology, each under the direction of one or more full-time physicians who are associated with the Faculty of the Harvard Medical School. There are also electrocardiograph, electroencephalograph, chemistry and metabolism laboratories, animal research equipment, and an extensive X-ray department with facilities for X-ray therapy, and a department of physical medicine and rehabilitation. During the past year 11,439 patients were admitted to the hospital. There were 2,551 deliveries. There is an active out-patient department to which there were 59,873 visits made during this period. There is also a Home Care Program in operation which serves chronically ill patients who can be effectively cared for at home rather than in the hospital.

THE CHILDREN'S MEDICAL CENTER

This is an affiliation of several voluntary institutions concerned with the care of the younger age group. Included are the following:

The Children's Hospital

This hospital has been located on Longwood Avenue adjacent to the Medical School since 1914. It is a general hospital for care of children from infancy through adolescence. Medical, pediatric, surgical, neurosurgical, orthopedic, dental, radiologic, psychiatric, and pathologic services with their associated specialties are maintained. Special clinical facilities are provided for adolescents. There are 250 beds, of which 186 are available for teaching. During the year 1954-55 it rendered 62,016 days of care to 8,481 admissions. Full laboratory and diagnostic services are provided for the study of material from the house and out-patient services.

The Sharon Sanatorium

This organization sponsors the Sharon Cardiovascular Unit composed of 24 beds devoted to the care of non-rheumatic cardiovascular disorders including congenital heart disease. It is included in Children's Hospital as described above. In the year 1954-55 a total of 420 patients were admitted.

The Infants' Hospital

Originally the Thomas Morgan Rotch, Jr. Memorial Hospital for Infants, this hospital has operated for many years in close conjunction with the Children's Hospital since 1923. There are 40 beds which are devoted to the care of infants in addition to a separate neonatal nursery accommodating 12 infants under the age of one month, including prematures. 1,148 patients were given 11,126 days of care during 1954. All cases in this hospital are available for teaching purposes.

(*New Building.* — The above three units occupy a new structure fully consolidating these facilities opened in 1956.)

The House of the Good Samaritan

Situated at 25 Binney Street adjacent to the Medical School. There are 64 beds devoted to the care and study of rheumatic fever and rheumatic heart disease. In the year 1954-55, a total of 152 patients were given 16,491 days of care. There is a research department for the study of rheumatic fever and rheumatic heart disease. All beds are available for teaching purposes.

The Hospital and Convalescent Home for Children

This unit, situated in Wellesley Hills, operates as an adjunct to the facilities for care of acute cases at 300 Longwood Avenue and vicinity. It provides 47 beds including 12 beds for care of long-term respiratory paralysis. During 1954-55, it rendered 10,970 days of care to 179 admissions. All cases are available for teaching purposes.

MEDICAL SCHOOL

The Children's Mission to Children

A social service organization, cooperating in home care and placement programs for children affected by illness and in need of such service.

The Children's Cancer Research Foundation

An independent institution working with its staff and facilities integrated with those of the Children's Medical Center, provides in conjunction with its research program care and treatment to children with disseminated cancer. This facility for the care and study of over 200 patients is available for teaching purposes.

The Judge Baker Guidance Center

A child psychiatry clinic whose treatment, training, and research programs are affiliated with those of the Department of Psychiatry of the Children's Medical Center, with one clinical head of Psychiatrist-in-Chief of the latter. During 1954-55, the Guidance Center gave psychiatric service to 2,446 children and their parents. This unit is presently constructing a building in close proximity to Children's Hospital, expanding and integrating the program in psychiatry.

THE BOSTON LYING-IN HOSPITAL

This hospital occupies a building completed in 1922 at 221 Longwood Avenue. There are 198 beds, 97 of which are used for teaching in obstetrics and physical diagnosis. During the past year there were 7,793 adult admissions to the hospital. A total of 6,051 births were recorded. Chemical, pathological, bacteriological and blood bank laboratories, and a well-equipped X-ray department are available for research. The Hospital has been in continuous existence since 1873.

THE FREE HOSPITAL FOR WOMEN

This hospital is devoted exclusively to the care of women, with emphasis on the treatment of diseases peculiar to them. It has 91 beds, of which 46 are available for teaching. In 1954-55, 2,998

HARVARD UNIVERSITY

patients were admitted, of whom 2,707 were operated on. In the out-patient department 12,856 patients were seen during this time, of whom 2,199 were new. In addition to standard laboratory facilities and a library, it has laboratories for research, oriented chiefly toward pathology, reproduction and neoplasia.

MASSACHUSETTS MENTAL HEALTH CENTER

This is a state institution for acute, curable, incipient, and doubtful cases of mental disease. The hospital was opened to patients in June, 1912 as a department of the Boston State Hospital. It became a separate institution in 1920. It has 139 beds, of which 14 are available for children. All of the beds are available for teaching and receives patients at the rate of about 1,000 a year. The hospital is equipped with psychological, clinical, biochemical, and research laboratories. The out-patient department which is made up of an adult and child division in 1954-55 received 750 new patients — total patient days during this period numbered 15,000. In addition to the psychoses and neuroses, the clinical material includes cases of maladjustment, personality problems, behavior disorders of childhood and mental defect.

NEW ENGLAND DEACONESS HOSPITAL

A 375 bed general hospital which includes the Deaconess General, Central, the George F. Baker Clinic, the Palmer Memorial and the Cancer Research Institute. In addition to general beds, the hospital has a section especially equipped for diabetics; other sections are devoted to cancer, neurosurgery, thoracic surgery, and thyroid patients. It owns two grams of radium, a large emanation plant, deep therapy equipment, including a new two-million volt X-ray machine, maintains a social service department, out-patient tumor clinic and conducts numerous research projects.

THE VETERANS HOSPITAL (WEST ROXBURY)

A 300 bed hospital devoted to the care of veterans. One half of the beds are for the care of general medical and surgical patients, the other half for paraplegic patients, and all of them are avail-

MEDICAL SCHOOL

able for teaching. During the past year there were 2,336 admissions to the hospital. It is administratively independent, but to a large extent jointly affiliated with the other Harvard teaching hospitals, especially the Peter Bent Brigham Hospital from which it is eight miles distant on Route 1 to Providence. It is fully equipped with laboratory and diagnostic services, with a research laboratory, and its own library.

Other hospitals in the Greater Boston area in which some teaching activities are carried on include: Cambridge Tuberculosis Sanatorium (physical diagnosis); Haynes Memorial Hospital (pediatrics); Long Island Hospital (physical diagnosis); Lemuel Shattuck Hospital; Metropolitan State Hospital; Middlesex County Sanatorium; Mt. Auburn Hospital (radiology); Peabody Home for Crippled Children; and the Pondville State Hospital.

HOSPITAL APPOINTMENTS

An active service is maintained to aid senior students in securing suitable hospital appointments as interns. Boston hospitals affiliated with the School make about one hundred such appointments each year. Internships for the Class of 1956 are listed in the back of the catalogue.

SCHOOL OF DENTAL MEDICINE

The Harvard School of Dental Medicine offers a four-year course leading to the degree D.M.D.

The requirements for admission parallel those of the Medical School. In addition, the Dental Aptitude Test is required. Qualified students and graduates of approved medical schools who wish to specialize in dentistry may be admitted to the School of Dental Medicine with advanced standing.

During the first two academic years the courses of instruction are nearly identical with those of the Medical School. The third and fourth years are under the direct supervision of the staff of the School of Dental Medicine. The recipient of the degree of D.M.D. from the School of Dental Medicine is well prepared to

HARVARD UNIVERSITY

meet State Board requirements for license to practice dentistry. Graduates are also ready for the advanced study and experience recommended for any of the specialties of dentistry.

Access to the research laboratories of the School in the elective time during the fourth year permits unusual training for those having dental research in mind as a career.

LIBRARIES

The joint library of the Medical School and the School of Public Health is on the second floor of the Administration Building, and in the other buildings are branch libraries. This library is open from 9 A.M. until 10 P.M., on Saturdays from 9 A.M. until 5 P.M., and on Sundays from 2 P.M. until 6 P.M. The present number of volumes in the library is 115,590 and in addition there are 213,707 pamphlets and about 1000 current periodicals on file.

The Main Library of the Medical School contains several collections of historical interest. The largest of these is the Warren Library. This consists of books and pamphlets on scientific and medical subjects collected by five generations of the medical men in one family. The Library was started by Dr. John Warren, first Professor of Anatomy and Surgery in the Medical School (1782). The material was bequeathed to Harvard University by Dr. John Warren in 1928 who taught Anatomy in the School from 1901 to 1928. The collection spans the years between 1476 (Caius Pliny, Secundus: *Historia Naturalis*) and 1928. Among the rarer volumes are Andreas Vesalius': *De Humani Corporis Fabrica* (1543), and William Harvey's: *De Motu Cordis* and *Sanguinis in Animalibus*, 2nd. ed. (1639).

The writings of a major portion of the Faculty also are housed in the library.

The School of Dental Medicine Library, at 188 Longwood Avenue, has about 5,530 bound volumes, 1,862 pamphlets and 161 current periodicals.

Two branch libraries, the Bowditch Library of Physiology and Biochemistry (on the third floor of Building C), and the

MEDICAL SCHOOL

Anatomical Library (on the third floor of Building B) also are available for student use.

The George Burgess Magrath Library of Legal Medicine contains a collection of approximately 3,000 bound volumes, 384 pamphlets, and 18 current periodical titles. It is located on the third floor of Building E.

The Lucien Howe Library of Ophthalmology, at the Massachusetts Eye and Ear Infirmary, has about 4,000 bound volumes, 2,479 pamphlets, and 40 current periodicals.

The College Library at Cambridge is open to all students.

The Boston Public Library is open to students who are residents of Boston. Students, not residents of Boston, who have filed a bond at the Bursar's office, may also use this library. The Bursar will furnish on application the necessary certificate of bond.

The Boston Medical Library, No. 8 The Fenway, contains on file about 225,000 bound volumes, 159,000 pamphlets, and approximately 1,000 current periodicals. This very valuable library is open to those who desire to consult medical literature, on week days from 9 A.M. to 5 P.M., and on Monday and Thursday to 9 P.M., Saturday, 9 A.M. to 1 P.M. The Medical School Library maintains a Union Catalog of its holdings with those of the Boston Medical Library.

The librarian of the Schools of Medicine and Public Health Library, and the School of Dental Medical Library is Miss Anna C. Holt, whose office is in Building A. Through her, contact with the other libraries mentioned is maintained. C. Sidney Burwell, M.D., is Chairman of the Library Committee.

WARREN ANATOMICAL MUSEUM

The Warren Anatomical Museum was founded in 1847 by John Collins Warren, of the College Class of 1797, Adjunct Professor of Anatomy and Surgery from 1809 to 1815, Hersey Professor of Anatomy and Surgery from 1815 to 1847, Professor *Emeritus* from 1847 to his death in 1856, son of John Warren, the first Hersey Professor of Anatomy and Surgery.

HARVARD UNIVERSITY

During the academic year the Museum is open to physicians and medical students from 10:00 A.M. to 4:30 P.M. from Monday through Friday except holidays. All collections of the Museum and necessary space and facilities are available for those who wish to make use of them for professional study. Rotating teaching exhibits of medicine, surgery, biological sciences, and history of medicine are presented in the main hall of the Museum each month from October through May.

Other persons interested in visiting the Museum may do so during the same hours, individually or in groups, on authorization of the Curator to whom application may be made.

Occupying 40,000 square feet of floor space on the third, fourth and fifth floors of Building A, the Museum contains some 12,000 anatomical and pathological specimens and many treasured mementoes of the Medical School collected from its foundation in 1782. The collections illustrate the changing orientation of medical thought and methods of teaching from the early 19th century. These include many models and dry and mounted specimens; osteological collection is notable. A large neuroanatomical and neuropathological collection of cerebra consisting of over 30,000 slides of serial whole brain sections has been recently added.

Dr. Paul I. Yakovlev, Associate Clinical Professor of Neuro-pathology, is the Curator of the Museum.

REQUIREMENTS FOR ADMISSION

Candidates for admission to the first year class must present evidence satisfactory to the Committee on Admission, not simply that they have passed the courses necessary to fulfill the requirements, but also that their college work and other credentials have been of such character as to give promise of work of high quality in the medical course. A broad general education including the attainment of competence in English, biology, chemistry and physics is essential for the comprehension of the medical school curriculum. For most students this will require at least three and probably four years of college education. Superior students may, in selected cases, be considered acceptable for admission to medi-

MEDICAL SCHOOL

cal school after only two years of collegiate work. In all instances, the final judgment as to the admissibility of any student rests with the Harvard Medical School Admission Committee.

In general, the School considers for admission students in good standing in arts or in sciences in colleges approved by one of the regional accrediting associations. A list of these schools may be obtained by writing to the Council on Medical Education and Hospitals, American Medical Association, 535 North Dearborn Street, Chicago, Illinois. (Colleges of pharmacy, optometry, veterinary medicine, agriculture, as well as junior colleges and evening and university extension courses are not ordinarily included in the approved list. Unless the premedical courses taken in such an institution are identical with those given in an approved university with which it is associated, credits earned therein will not be acceptable to the Committee.) Credentials from foreign universities, in most cases, must be supplemented by two years of work in an American university. Admission cannot be assured as the classes of the Medical School and the School of Dental Medicine are limited by Faculty rule to 114 students in the Medical School and 16 students in the School of Dental Medicine. Applications will not be accepted from candidates who have been refused admission on two prior occasions.

In order to meet the present legal requirements of state licensing boards and to have the needed basic understanding, the following specific college credits must be secured:

Biology: The student should take a general course in biology which should emphasize the structure, function, natural history, and evolution of plants and animals. A course in embryology is distinctly recommended but bacteriology, human anatomy, and histology will not be considered as meeting the biology requirements. A satisfactory course should show college credits of at least eight semester hours.

Chemistry: The student should acquire a sound understanding of the basic principles of chemistry, both inorganic and organic. He must have taken not less than 16 semester hours of chemistry,

HARVARD UNIVERSITY

which should be about equally divided between inorganic and organic chemistry. Biochemistry will not be accepted as meeting these requirements.

To be prepared adequately for the work in chemistry in the Medical School it is desirable that the student have had experience with the application of chemical laws to gases and solutions, and some experience with quantitative techniques (particularly volumetric analysis).

Physics: The student should acquire an understanding of the general principles of physical laws and phenomena, and have experience in mechanics, heat, light, sound, and electricity. College credit for eight semester hours must be secured.

The above science courses must be accompanied by laboratory work taken as a part of the college course.

English: The student should have facility in the use of English in speech and composition. A one year course in which composition is included is acceptable but two years of college English are recommended. Even though, in the judgment of the authorities of the applicant's college, he has obtained enough training in secondary school to be exempted from the usual beginning course in English, an advanced course in English is strongly recommended.

Modern Language: The student should have a reading knowledge of a modern language important to medicine in addition to English. The Committee on Admission suggests either French, German, Italian, Spanish, or Russian as a suitable language. A reading knowledge presupposes two years of high school and one year of college work, or two years of college work. If an applicant has fulfilled the language requirement for a Bachelor's degree by obtaining a sufficiently high score on the College Board examination or by passing a college language placement test in one of the above languages, he will be considered as having fulfilled the requirement for admission to medical school. Even in such cases,

MEDICAL SCHOOL

however, an advanced course in the same foreign language is strongly recommended.

The Medical College Admission Test of the Association of American Medical Colleges is required. Information about this test may be obtained by writing to the Educational Testing Service, 20 Nassau Street, Princeton, New Jersey.

Interview: An interview may be required of any applicant. The Committee on Admission will inform an applicant if one is necessary in his case.

ADMISSION TO ADVANCED STANDING IN THE HARVARD MEDICAL SCHOOL

The third year class may be increased by approximately 35, making place for transfer students from other medical schools. Vacancies in the second year class may also be filled by transferring students.

Students of high scholastic standing will be considered. They must be vouched for as promising men by the Dean of the school from which they come and must furnish a certificate of time spent in medical studies at least equal to that spent by the class to which they seek admission. Full credit for work done elsewhere will be allowed as a rule. All the requirements for the first year class (including the Medical College Admission Test), must have been fulfilled by applicants for advanced standing.

Applications may be obtained at the Admissions Office approximately one year prior to the expected date of transfer.

Admission of graduates from the Harvard Medical School to the third year at the Harvard School of Dental Medicine, or from the Harvard School of Dental Medicine to the third year at the Harvard Medical School, will be decided by a special Committee on Continued Professional Study in Medicine and Dentistry.

ADMISSION TO ADVANCED STANDING IN THE HARVARD SCHOOL OF DENTAL MEDICINE

A student who has begun his studies in an approved medical school may be admitted to the second or third year and become a candidate for the degree of Doctor of Dental Medicine under the following conditions:

He must be vouched for as a promising man by the Dean of the medical school from which he applies.

He must furnish a certificate of time spent in medical study at least equal to that spent by the class to which he seeks admission.

All the requirements for the first year class must have been fulfilled by applicants for advanced standing.

The Committee on Admission will decide in each case whether examination in the various subjects shall be required.

INFORMATION FOR SERVICEMEN

The qualifications for admission remain essentially the same for veterans as for civilian applicants. Before the acceptance of a veteran can become final, the applicant will need to submit photostatic copies of discharge papers or similar evidence of honorable release. Where available the applicant should file also a copy of his "Separation and Qualification Record" on which is listed in detail his service record and training. If the Committee does not act favorably on an application, certifications furnished by the applicant may be returned, at his request. It is the responsibility of the applicants to take the necessary steps toward obtaining government benefits for servicemen for which they are eligible. On request the Harvard Veterans Office can furnish a brief statement of the necessary procedures required by the Veterans Administration to receive such benefits. The University has established this office to form a central point for answering inquiries and advising veterans. For matters relating to veterans' affairs and not connected directly with the Medical School or the School of Dental Medicine, the applicant should

MEDICAL SCHOOL

feel free to write to the Harvard Veterans Office, Lehman Hall, Cambridge 38, Massachusetts.

APPLICATIONS FROM FOREIGN STUDENTS

A candidate from a foreign university may file application for admission, but if he has attended a university or medical school which has not received approval by the Approving Authority of the Commonwealth of Massachusetts, he must receive specific approval from the Authority before he can be admitted. In general, it is the policy of the Committee on the Admission of Students to require that foreign students spend at least one year, and preferably two, studying at an undergraduate college in this country before applying for admission to the Harvard Medical School. This policy has been established in order both that the applicant may become familiar with the language, customs, and methods of teaching in the United States, and that the Committee may obtain a better evaluation of his qualifications and preparation for medicine. Exception to this policy may be made in the case of qualified applicants from medical schools in the British Isles.

Students seeking transfer to the second year class from foreign medical schools may be required to take the examinations in the first year subjects at the regular time they are given at the Harvard Medical School in February and May. Students applying for transfer to the third year at the Harvard Medical School will be required to pass successfully Part I of the examinations given by the National Board of Medical Examiners.

FOREIGN STUDENTS

All students who are not citizens of the United States will be referred before registration to the Counselor for Foreign Students, 24 Quincy Street, Cambridge, where they *must* present a statement of admission, show their passports, and fill out a Student Registration form. They will then receive a card for presentation at registration, showing they have been cleared by the office

HARVARD UNIVERSITY

of the Counselor for Foreign Students. This Office is prepared to furnish information to aliens on visa requirements, permissible employment, income tax liabilities, Selective Service regulations, and many other official restrictions in effect under existing laws of the United States.

GENERAL REGULATIONS

In order that the time of study shall count as a full year, students of all upper classes must register on the first day of the session.

A fee of \$10 is charged for late registration.

For special and approved purposes fourth year students may be allowed to take a portion of their work elsewhere than at the Harvard Medical School, provided the application be approved by the Dean in consultation with the Administrative Board and the head of the department concerned, and provided the student passes an examination on this work after its completion, conducted by a member of the Faculty of the Harvard Medical School.

EXAMINATIONS AND PROMOTION

Promotion from one class to another is contingent upon the satisfactory completion of the required work of each year. In each course, when indicated, students will be informed by their instructors as early as possible when the progress of their work is unsatisfactory.

Final grades in each course will be based upon such examinations or other tests as are determined by each department. Grading is on the scale of A, B, C, D, and E (denoting failure).

Grades are averaged on the basis that A = 1, B = 2, C = 3, D = 5 and E = 8, and since the time devoted to courses varies, grade averages will take into account the time assigned to courses, giving them computation values as follows:

First Year: Anatomy 5; Histology 5; Physiology 5; Biological Chemistry 5.

MEDICAL SCHOOL

Second Year: Pathology 6; Bacteriology 4; Pharmacology 4;
Physical Diagnosis 2; Laboratory Diagnosis 2; Surgery 2.
Third Year: Medicine 6; Surgery 6; Pediatrics 3; Obstetrics 3;
Preventive Medicine 2.
Fourth Year: Proportional to month's work.

Promotion Boards

Promotion Boards have been appointed for the first, second and third years to review the work of each student at the end of the year or, at their option, at other times. The membership of these boards consists of one representative from each department whose grading, as noted above, affects the student's grade average and one member from the Committee on Examinations and not as voting members, the Dean or Assistant Dean, *ex-officiis*, and on the Promotion Boards of the first and second years, the Dean of the School of Dental Medicine, *ex-officio*.

It is the duty of the Promotion Boards to promote those qualified, to notify formally students whose work in any course is unsatisfactory — in certain cases requiring that such students repeat the year's work — and to recommend that unpromising students withdraw from the School.

Opportunity will be given to students to appeal the decision of a Promotion Board either at a special meeting or at the next regular meeting of the Board. Appeals must be sent to the Chairman of the Promotion Board, Harvard Medical School and, to be valid, be received by him within two weeks after the issuance of a Promotion Board's notice of formal action.

General Examination

A committee will give a General Examination to each candidate for the degree of M.D. It will recommend to the Faculty those who pass and are otherwise qualified for the degree and for honors. The conditions under which a student shall take a General Examination and the character and content of the examination will be determined by the Committee subject only to rules of the Faculty.

A student becomes eligible to take a General Examination on successfully completing seven-eighths of his fourth year work.

HARVARD UNIVERSITY

He may not anticipate the General Examination ahead of his class.

A student who fails three General Examinations is debarred from further attempts.

Rules Governing Promotion

1. A student with a grade averaging, for one year, from D (5) to E (8) will ordinarily be required to withdraw from the School.
2. A student whose grade for one year averages from 4 to 5 will be warned that his work is unsatisfactory. At the Promotion Board's discretion such a student may be required to repeat the year's work, or to withdraw from the School.
3. A student who is set back a year must repeat at least two assigned subjects and then he will not be promoted unless he obtains a grade of C or better in both of these subjects.
4. A student who is warned by a Promotion Board that his work is unsatisfactory and yet is permitted to advance with his class must attain for the ensuing year a grade average which is significantly better than in his previous year, failing which he must repeat the year's work, or, at the Board's discretion, he may be required to withdraw from the School.
5. A student failing in any course and yet permitted to advance with his class may not be promoted a second time nor will he be allowed to take the General Examination until that failure is removed.
6. A student failing any course will have an opportunity for re-examination only at a time set by the Promotion Board or with a succeeding class or section.

WITHDRAWAL FROM THE SCHOOL

The Faculty reserves the right to require the withdrawal of any student at any time when, in the opinion of his instructors, it is manifest that he is incompetent, or for any reason is unfit to continue his course.

A student may withdraw voluntarily from the School upon application to an Assistant Dean. *Application for reinstatement by any student must be received in writing at least four months*

MEDICAL SCHOOL

prior to the date of readmission and for favorable action must be approved by the Committee on Admission. After two years, favorable action will usually not be taken.

DEGREES

DEGREE OF DOCTOR OF MEDICINE

Every candidate for the degree of *Doctor of Medicine* at this University must be at least twenty-one years of age, and of good moral character. He must have fulfilled all the requirements for admission to this Medical School; give evidence of having studied in a recognized medical school at least four full years, of which one year must be spent in the regular fourth year course of this School; have passed all the required examinations; have dissected the three parts of the body to the satisfaction of the demonstrator; have taken charge of and reported on twelve cases in Obstetrics under supervision and instruction; and furnish evidence of having engaged in the practical exercises in Medicine and Surgery.

The degree of Doctor of Medicine *cum laude, magna cum laude, or summa cum laude* may be given to students of highest rating in the class, on recommendation of the Committee on Examinations and the Faculty.

The degree of Doctor of Medicine *cum laude, magna cum laude, or summa cum laude* for a thesis in a special field may be awarded to candidates for the degree of Doctor of Medicine on recommendation of the Committee on Examinations and the Faculty. The work for this may have been carried out under the Tutorial System or by independent arrangement with any member of the Staff.

The degree is awarded for original and meritorious investigation in a single subject or group of subjects and for evidence of ability, scholarship and persistent interest and industry. Candidates wishing to be considered for such honors in a special field must apply to the Dean's Office not later than March 1 of the year of graduation and must submit two typewritten copies of an original thesis prepared in form usual for publication. The

HARVARD UNIVERSITY

written approval of the head of the department in which the work was completed must be attached.

The thesis should include an introduction with references to relevant literature; a brief statement of the purpose of the study; a description of the materials and methods employed; an account of the original observations included; a discussion of the results; a summary; and a list of the references used.

No candidate is eligible to graduate with honors for a thesis in a special field unless he has done creditable work in his regular curricular studies and has passed the General Examinations. In addition, any candidate whose qualifications are acceptable for honors in a special field must pass an oral examination before the Subcommittee on Honors in a Special Field and invited special examiners in which he will be examined not only on the subject of his thesis but on the general field of which it is a part.

Every candidate for the degree of M.D. must make application for it in writing on blanks furnished at the Dean's Office, on or before April 1.

HIGHER DEGREES IN THE MEDICAL SCIENCES

The degrees Doctor of Philosophy, Master of Arts, and Doctor of Medical Sciences have been established for advanced work in some special field in the medical sciences. The first two degrees are administered by the Faculty of Arts and Sciences, through the Division of Medical Sciences, which consists of faculty members of the preclinical departments of the Medical School. The third is administered by the Faculty of Medicine. All candidates for these degrees must hold a degree in Arts or in Sciences from an approved college.

Candidates for the Doctor of Philosophy and Master of Arts degrees are registered in the Graduate School of Arts and Sciences for study in the Division of Medical Sciences. Students interested in graduate study in the Division should see the General Announcement of the Graduate School of Arts and Sciences and the pamphlet entitled Higher Degrees in Medical Sciences. These

MEDICAL SCHOOL

can be obtained by men from the Harvard Graduate School, 24 Quincy Street, Cambridge 38, Massachusetts; or by women from the Radcliffe Graduate School, Radcliffe College, Cambridge 38, Massachusetts.

Inquiries should be addressed to the Chairman of the Division of Medical Sciences, 25 Shattuck Street, Boston 15, Massachusetts.

Doctor of Philosophy and Master of Arts

The Division offers to entering students a new type of course, Medical Sciences 201ab, which is designed to introduce the student to the literature, experimental methods and fundamental principles associated with each of the preclinical sciences—anatomy, bacteriology, biochemistry, pathology, pharmacology and physiology. The establishment of this course represents a new departure in the training of candidates for the Ph.D. degree within the Division. Studies will center around the functional and morphological characteristics of cells, organs, and organ systems, and each topic selected for study will be approached from the various points of view represented by the different sciences. This course is given in a laboratory specially designed to permit the integrated study required by this approach. This course will ordinarily constitute the entire program of study for first year graduate students in the Division. After completion of the course, the student may enter any one of the special fields to carry out his or her more advanced studies and thesis work. These advanced studies may include courses in the Departments of Biology, Chemistry, and Physics in Harvard College.

The major aim of the Division of Medical Sciences is to prepare graduate students for careers of research and teaching in the basic medical sciences. Since the graduate student may elect a program of study suited to his individual requirements, he may concentrate on his field of special interest early in his training, without the obligation of spending two or three additional years in clinical studies which are required for the degree of Doctor of Medicine.

The graduate student in the Division devotes a major portion

HARVARD UNIVERSITY

of his time to original experimental investigation which he undertakes in conjunction with formal courses designed as a preparation for his special field. During the period when he is taking formal courses, he may choose the type of problem which interests him most among the wide range of research activities of members of the Division.

Candidates for admission should have a thorough grounding in the biological and physical sciences. This will usually be more than the minimum for admission to medical school. Advanced courses in biology, chemistry, and physics are ordinarily regarded as preferable to undergraduate courses in bacteriology, biochemistry, histology, etc. A reading knowledge of German and one other modern language is desirable but not required for admission. The candidate will be required, however, to pass an examination in German and one other foreign language before graduation.

The minimum requirement for the degree of Doctor of Philosophy consists of not less than two years — at least one and a half of which must be in residence at Harvard or Radcliffe — devoted to advanced studies approved as suitable preparation for the degree by the proper department. Ordinarily three or more years are required for the completion of formal courses and preparation of a thesis. In estimating the amount of a candidate's study for the degree, the advanced work done in other graduate departments at Harvard or of other universities will be considered.

It is expected that the preparation of a thesis will require full time for usually not less than one and a half years. It must show original treatment of a fitting subject, give evidence of independent research, and be clearly, logically, and carefully written in good English. Following acceptance of his thesis, the candidate is given an oral Final Examination on the subject of his thesis and its relation to his special field and collateral subjects.

The minimum requirement for the degree of Master of Arts consists of a full year of residence and study. At least one quarter of the work must be more advanced than the regular introductory courses offered by the various departments, and should consist of research or individual preparation for research. In

MEDICAL SCHOOL

addition, each student must pass an examination in French or German. In some departments a thesis is required for the degree.

Doctor of Medical Sciences

Candidates for this degree must matriculate as medical students and complete with an honor grade the regular elementary courses offered by this School, together with such other subjects as may be recommended by the Faculty. Ordinarily this preparatory training will be equivalent to the first two years of the course of study leading to the degree of M.D. In addition, all candidates are required to have a reading knowledge of French and German. In estimating the amount of a candidate's study for the degree, study completed in other approved medical schools will be considered.

Following the completion of this preliminary training, the student shall devote himself for not less than two years to the intensive study of one of the fundamental medical sciences and to the preparation of a thesis. The thesis must show an original treatment of a fitting subject and give evidence of independent research.

There shall be two examinations for every candidate for this degree: a general examination, before entering upon the work of the last two years, covering the elementary medical sciences; and a final examination, upon acceptance of the thesis, covering the particular medical science chosen as a special field.

The fees for the first two years are the same as for medical students.

STUDENT EMPLOYMENT

The Dean's Office makes every effort to assist students in obtaining part-time work during the college year when a student's standing is such that it is felt he can carry outside work, and full-time work during the summer vacation. The service is furnished without cost either to the student or to the employer.

Only a limited amount of outside work can be done without being a tax on a student's health and scholarship, and the student

HARVARD UNIVERSITY

is urged, when it is possible, to devote himself to a regular program of study and recreation, giving as little time to outside work as is feasible with his plan for financing his medical education. A number of positions offering room and board in return for laboratory or minor clinical services in hospitals are available to second, third, and fourth-year students. Fewer opportunities are open to first-year students.

MICROSCOPES

The School requires that each student secure a standard student microscope, preferably less than twenty years old, with a minimum of two oculars and three objectives including an oil immersion lens. A mechanical stage is not essential. The minimum requirements are as follows:

- 2 oculars 5X and 10X
- 1 oil immersion objective
- 1 16mm. objective
- 1 4mm. objective
- 1 complete substage —Abbe condenser and Iris diaphragm

In addition, the following are recommended by the Department of Pathology:

- 1 scanning objective 2-3X
- 1 quadruple nosepiece

Under the auspices of the Vanderbilt Hall Committee, arrangements have been made for the *quantity purchase*, at a substantial discount, of the standard American, certain German and Japanese microscopes. The standard American and German monocular microscopes currently retail at about \$350, binoculars at about \$550. The Japanese Yashima (which is being used in several departments at the Medical School) retails at about \$250, and sells at a greater discount than the American and German.

Further information about the *quantity purchase plan* will be sent to each student.

The Medical School has about fifty microscopes available for rental each year to first-year students unable to provide their own. The rental charge is \$10 a half year. A rental microscope will be reserved for each student who applies for one by April 15.

MEDICAL SCHOOL

FEES AND EXPENSES

An estimate of total yearly expenses shows that the average cost of the school year is approximately \$2,500 for each academic year. This estimate includes tuition, medical health fee, board and room, books, laundry and incidentals.

The fees are: — For matriculation, \$5; for medical health fee, \$61.50 for each year; for instruction (including laboratory charges except microscope rental, breakage, damage and loss of apparatus), \$1,000 for each year.

Term-bills for the year 1956-57 are issued and payable as follows:

<i>Issued</i>	<i>Payable</i>	<i>Basis Charges</i>
	At Registration	$\left\{ \begin{array}{l} \frac{1}{4} \text{ Tuition for the year} \\ \frac{1}{2} \text{ Medical Health Fee} \end{array} \right.$
Nov. 20	Dec. 9	$\left\{ \begin{array}{l} \frac{1}{4} \text{ Tuition for the year} \\ \frac{1}{4} \text{ Board for the year (Undergraduates)} \\ \text{Board through Oct. 31 (Graduates)} \\ \frac{1}{4} \text{ Room Rent for the year} \\ \text{Coupon Books through Oct. 31} \\ \text{Miscellaneous Charges} \end{array} \right.$
Jan. 20	Feb. 10	$\left\{ \begin{array}{l} \frac{1}{4} \text{ Tuition for the year} \\ \frac{1}{2} \text{ Medical Health Fee} \\ \frac{1}{4} \text{ Board for the year (Undergraduates)} \\ \text{Board through Dec. 31 (Graduates)} \\ \frac{1}{4} \text{ Room Rent for the year} \\ \text{Coupon Books through Dec. 31} \\ \text{Miscellaneous Charges} \end{array} \right.$
Apr. 20	May 10	$\left\{ \begin{array}{l} \frac{1}{4} \text{ Tuition for the year} \\ \text{Additional Course Fees for the year} \\ \frac{1}{4} \text{ Board for the year (Undergraduates)} \\ \text{Board through March 31 (Graduates)} \\ \frac{1}{4} \text{ Room Rent for the year} \\ \text{Coupon Books through March 31} \\ \text{Miscellaneous Charges} \end{array} \right.$

HARVARD UNIVERSITY

June 5*	June 12	$\frac{1}{4}$ Board for the year (Undergraduates) Board to the end of year (Graduates) $\frac{1}{4}$ Room Rent for the year Coupon Books to the end of the year Miscellaneous Charges
June 28	July 15	$\frac{1}{4}$ Board for the year (Undergraduates) Board to the end of year (Graduates) $\frac{1}{4}$ Room Rent for the year Coupon Books to the end of the year Miscellaneous Charges

* Applies only to candidates for degrees.

Bills for miscellaneous charges will be rendered at the time the indebtedness is incurred.

All indebtedness to the University must be paid by all candidates for degrees at least one day before Commencement.

Students who are candidates for degrees in the middle of the academic year must pay all dues to the University at least one day before the day upon which the degrees are to be voted.

The term-bills are sent to the student at his college address unless the Bursar is requested in writing to send them elsewhere.

When a student's connection with the University is severed, all charges against him must be paid at once.

A deposit of \$50 is required of every new student who accepts a place in the Medical School; this sum to be applied on his first term-bill or to be forfeited if the student does not register.

Any student whose indebtedness to the University remains unpaid on the date fixed for payment is deprived of the privileges of the University until he is reinstated. Reinstatement is obtained only by consent of the Dean of the Department in which the student is enrolled, after payment of all indebtedness. A fee of \$10 is automatically added to all bills which are unpaid by the due date. *Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intention to withdraw from the School.*

MEDICAL SCHOOL

DORMITORY

Vanderbilt Hall, the Medical School dormitory, has accommodations for 325 male students. The majority of the rooms are designed for one occupant. Many of the rooms communicate directly with the adjacent room, and there are also a number of suites for two or more persons. The price of rooms ranges from \$200 to \$450 per person for the academic year. Application forms for rooms in Vanderbilt Hall will be sent to all new students approximately four months before registration day. The date on which they must be returned in order to be included in the drawing will be announced at that time. Students are permitted to reengage their rooms for the following year by signing lease cards at the Dean's Office. The dormitory has squash courts and a gymnasium which are open to members of the teaching staff and students of the Medical School. In addition the School has tennis courts and has an outside exercise field. There is a parking lot for automobiles behind the hall which is owned by the School. No charge is made for this facility and the School assumes no responsibility for loss or damage to automobiles or other property left in the lot.

DINING HALL

The dormitory contains a large dining hall which is available for all members of the medical area. *First year students* living in Vanderbilt Hall will be required to pay full board, \$520.00 for 21 meals a week throughout the academic year. *Second year students* living in Vanderbilt Hall will be required to pay full board for the first semester, \$260.00 for 21 meals a week for the term. During the second term, second year students may sign up by the week or pay for individual meals as they wish. Except as stated above, a weekly or an individual meal rate is available.

BOND REQUIRED OF STUDENTS

On his entrance to the School each student is required to file with the Bursar a bond in the sum of \$500 as security for payment

HARVARD UNIVERSITY

of University bills. The bond must be signed by two bondsmen, both of whom must be citizens of the United States, or by a surety company duly qualified to do business in Massachusetts.

No officer or student of the University will be accepted as a bondsman and in no case will more than one parent be accepted as a bondsman.

In lieu of the bond a student may deposit with the Bursar five hundred dollars in United States Treasury coupon bonds, or five hundred dollars in cash which will bear no interest.

STUDENT HEALTH SERVICE

The Harvard Medical Center Clinic at the Peter Bent Brigham Hospital, 721 Huntington Avenue, supplies medical care to the students. The clinic is open daily except Saturday afternoons, Sundays, and holidays from 8:30 a.m. to 5:00 p.m.; office hours for the physicians are 8:30 to 10:00 a.m. and 1:00 to 2:00 p.m. However, one of the staff is available during the day by appointment and for emergencies. For emergency care at night and on holidays, the Emergency Service of the Peter Bent Brigham Hospital is open at all times and one of the staff of the clinic is available by telephone. A complete medical examination of each new student is required at the beginning of the school year. This is conducted by appointment shortly after school opens.

Medical students requiring hospitalization will ordinarily be hospitalized at the Peter Bent Brigham Hospital. Upon registration, each student receives a booklet which describes the medical services available from the Medical Center Health Service. Hospital insurance is available through the plan for wives and children of married students.

Evidence of having been satisfactorily vaccinated is required for entrance to Harvard University and a form for certification which must be filled out is sent to each student who is accepted for admission. Results of a chest film made within six months prior to registration must be reported.

Any illness necessitating absence from classes should be reported to the Health Service.

MEDICAL SCHOOL

FELLOWSHIPS AND SCHOLARSHIPS

FELLOWSHIPS

The amount of the stipend of the Fellowships and Scholarships is approximate only and contingent upon the income of the University.

Students who marry while on a fellowship will forfeit the fellowship unless at the time of their application they have notified the Committee of their intention to marry.

EDWARD HICKLING BRADFORD (1918). Anonymous. To be used for medical research or instruction separately or in connection with any other foundation, in such manner as may be prescribed.

BULLARD (1891). William Story Bullard, in memory of three physicians "distinguished for their honorable personal character and their professional services in this community":

GEORGE CHEYNE SHATTUCK MEMORIAL

JOHN WARE MEMORIAL

CHARLES ELIOT WARE MEMORIAL

Any one or all of these fellowships may be paid to any student or member of the medical profession appointed to make such original investigations in Medical Science as will be most useful to the profession and to the community. The results of these investigations shall not, however, be published as a research performed under the grant of a Bullard Fellowship, unless the work shall have received the approval of the Committee.

Holders of the fellowships must do throughout the academic year the equivalent of at least ten hours' work a week and make a report thereon.

ARTHUR TRACY CABOT (1913). Dr. and Mrs. Frederick Cheever Shattuck. In memory of Arthur Tracy Cabot, A.B. 1872, M.D. 1876. For students of surgery. Ordinarily the incumbent may not engage in active practice, but is to devote himself to the advancement of surgery in the United States or elsewhere. Nomination to this fellowship is by preference to be made by the Moseley Professor of Surgery.

HARVARD UNIVERSITY

JAMES JACKSON CABOT (1906). Arthur T. Cabot, Samuel Cabot, and Guy C. Cabot. Income to be used to "aid and encourage practical work in scientific medicine."

WALTER BRADFORD CANNON (1945). Mr. Joseph F. and Mrs. Clara Ford. A fellowship in Physiology.

HENRY A. AND CAMILLUS CHRISTIAN (1956). Henry A. Christian. To be appointed by the Hersey Professor of the Theory and Practice of Physic. The fellowship shall be held preferably by the same individual for a period of five years. The greater part of his time shall be devoted to medical investigation, preferably in the field of clinical medicine.

HAROLD C. ERNST MEMORIAL FUND (1938). Mrs. Ellen L. Ernst. A scholarship or fellowship in the Department of Bacteriology.

CHARLES FOLLEN FOLSOM (1908). Founded by more than sixty persons in memory of Charles Follen Folsom, A.B. 1862, M.D. 1870. A Teaching Fellowship in Hygiene or in Mental and Nervous Diseases. For the present assigned to the Department of Neuropathology-Neurology.

CHARLES DUSTIN HUNKING, M.D. (1948). Sarah S. H. Cheney, in memory of her brother, Charles Dustin Hunking, M.D., a member of the Class of 1871 of Harvard University and of the Class of 1876 of Harvard Medical School. To enable a graduate of Harvard Medical School, who is also a native of Haverhill, Mass., to do medical research.

LOUIS E. KIRSTEIN (1937). Friends of Louis E. Kirstein. For the promotion of scientific medical education.

WILLIAM O. MOSELEY, JR., TRAVELLING FELLOWSHIPS (1912). Mrs. William O. Moseley. For students who have attended the School for three or four years or, upon recommendation of the Administrative Board in each such case, men who have been two years as undergraduates in the School and who have subsequently for at least a year done, under members of the staff of this School, advanced work of such character and quality as to lead the Administrative Board to believe that they will be of unusual value

MEDICAL SCHOOL

in their profession. To enable them to continue the study of medicine in Europe. Either two or three fellowships will be awarded.

FRANCIS WELD PEABODY MEMORIAL (1929). To be awarded on the recommendation of the Dean and full professors of Medicine in charge of the clinics of the Boston City Hospital, the Massachusetts General Hospital, and the Peter Bent Brigham Hospital, to properly qualified graduates of medical schools to enable them to devote further time to intensive clinical and laboratory studies.

JEFFREY RICHARDSON (1933). William Lambert Richardson, A.B. 1864, M.D. 1867. To be awarded each year to some deserving student, upon his graduation from the Harvard Medical School, who desires to continue his studies either here or abroad.

HENRY P. WALCOTT (1910). Dr. Frederick Cheever Shattuck. For a Fellow in Clinical Medicine appointed on nomination by the Jackson Professor of Clinical Medicine. The recipient shall not engage in private practice but must devote his time to teaching and clinical research.

WHITMAN (1933). Mrs. Bernard C. Whitman, in memory of her husband Bernard C. Whitman, A.B. 1846, and of her son Crosby C. Whitman, A.B. 1886. Available for a graduate of Harvard Medical School pursuing the study of medicine or surgery at the École de Médecine de Paris.

WILLIAM HUNTER WORKMAN (1925). William Hunter Workman, M.D. 1873. To enable one or more graduates of the Harvard Medical School to pursue postgraduate studies in medicine in this country or abroad. In exceptional cases, fourth year students will be eligible.

SCHOLARSHIPS

HARVARD MEDICAL SCHOOL NATIONAL SCHOLARSHIPS

In order to make it possible for young men of outstanding ability and promise to come to the Harvard Medical School, two or three

HARVARD UNIVERSITY

Harvard Medical School National Scholarships will be offered to incoming members of the first year class. These scholarships will carry a stipend sufficiently large, if necessary, to meet all the student's essential expenses. Successful applicants who maintain a high honor record at the Medical School will continue to hold these scholarships throughout the Medical School course.

The offer of these scholarships is made possible by gifts from Mr. Edward S. Harkness, Dr. Daniel F. Jones, and Dr. Franklin S. Newell. The donors expressed the hope that through these scholarships superior men who could otherwise not receive a medical education would be enabled to attend the Harvard Medical School. They also expressed the hope that some of these men might wish to return to their own communities to carry on the practice of medicine.

Direct application for these scholarships cannot be made since all accepted first year students are considered as candidates, the awards being made without reference to financial circumstances. The stipend will vary depending on the resources of the recipient.

GENERAL SCHOLARSHIPS

The following scholarships are open to students who have been admitted to the School at the time of application. Approximately \$58,000 is available annually from the general scholarship funds.

The Cheever, Gerry, Greene, and Haven Scholarships are awarded only to students of the first year class. The Hayden and Webster Scholarships may be so awarded. All the other scholarships are available to members of all classes.

Scholarships and gratuities are awarded to such men among those applying for and needing assistance as give evidence of having done the best work in this School.

Information with regard to all forms of pecuniary aid may be obtained from the Dean's Office. Students requiring aid should visit the Dean's Office as soon as possible after matriculation to discuss their financial needs.

AESCALAPIAN CLUB (1938). To be used for loans or scholarships.

MEDICAL SCHOOL

EDWARD DANA BARBOUR FUND (1928). For promoting medical education in China, preference to students coming from Shanghai or its environs.

EDWARD M. BARRINGER FUND (1881). Edward M. Barringer. For the maintenance of two scholarships for students in the Harvard Medical School. Awarded to deserving students, preference being given to those of the fourth year class.

EDWARD M. BARRINGER No. 1

EDWARD M. BARRINGER No. 2

GORDON BARTLETT (1919). Mr. and Mrs. Donald Gordon, in memory of their nephew, Gordon Bartlett, a student at Dartmouth College who died of wounds at St. Mihiel while serving in the Seventeenth Field Artillery. Preference is given to graduates of Dartmouth College. This scholarship will ordinarily be divided between two men.

MATTHEW AND MARY E. BARTLETT (1916). Miss Fannie Bartlett, in memory of Matthew and Mary E. Bartlett. For the benefit of a worthy and meritorious student who is in need of financial assistance.

LUCIUS F. BILLINGS (1900). Lucius F. Billings. May be divided between two or more students.

DR. ROBERT BONNEY FUND (1944). Robert Bonney, M.D. 1898. For the aid of needy and meritorious students.

HENRY FASSETT CASTLE (1941). William E. Castle, A.B. 1893, A.M. 1894, Ph.D. 1895, as a memorial to his son, Henry Fassett Castle, who died in November, 1919, at the age of 19, having completed the previous June the work of the first year in the Medical School.

DAVID WILLIAMS CHEEVER (1889). David Williams Cheever, A.B. 1852, M.D. 1858, LL.D. For a first year student after three months' study in the Medical School.

DAVID WILLIAMS CHEEVER #2 (1947). David Cheever, A.B. 1879, M.D. 1901. To be awarded at the beginning of the year to a first year medical student in hope that after the stated pro-

HARVARD UNIVERSITY

bationary period he may be awarded the scholarship founded by David Williams Cheever, A.B. 1852, M.D. 1858.

ELEANOR DWIGHT CLARK (1938). For one or more scholarships of the type of the Harvard National Scholarships.

COTTING GIFT (1900). Benjamin E. Cotting, A.B. 1834, M.D. 1837. Awarded on the basis of pecuniary need, intellectual capacity, faithfulness and earnest endeavor.

MYRON DENTON (1956). Myron P. Denton, in memory of his father.

ORLANDO W. DOE (1893). Orlando Witherspoon Doe, A.B. 1865, M.D. 1869. To be given annually to a deserving student in the Medical department.

GEORGE RUSSELL EAGER (1936). Miss Mabel T. Eager, in memory of her father.

HENRY EHRLICH MEMORIAL (1927). Friends and family of Henry Ehrlich, M.D. 1886. To be used for the assistance of needy and worthy students regardless of creed or color.

RUSSELL DUNSON ELLIOTT (1950). Awarded annually to properly qualified applicants, preferably of Anglo-Saxon ancestry.

HORACE PUTNAM FARNHAM (1918). Mrs. Eliza Cary Farnham in memory of her husband, Dr. Horace Putnam Farnham, A.B. 1843. For the benefit of meritorious students in the Harvard Medical School.

REGINALD FITZ (1954). Scholarships for students in the Harvard Medical School.

DR. E. PEABODY GERRY (1943). The income to aid first year students.

CHARLOTTE GREENE (1925). Edwin Farnham Greene. For a first year student whose previous record indicates special promise.

DR. C. EUGENE GUNTHER (1933). Mrs. C. Eugene Gunther in memory of her husband. To be used to maintain two scholarships for the benefit of deserving medical students.

GEORGE HAVEN (1913). George Haven, M.D. 1883. To be

MEDICAL SCHOOL

used annually for scholarships for students of the first year in the Medical School.

LEWIS AND HARRIET HAYDEN (1894). Mrs. Harriet Hayden. For colored students. The income may be divided. If not awarded in the Medical School, the School of Public Health, or the School of Dental Medicine, it is open to colored students in any other department of the University.

WILLIAM HILTON (1897). Two scholarships annually in the Medical School.

WILLIAM OTIS JOHNSON (1911). Mrs. William O. Johnson, in memory of her husband, William Otis Johnson, A.B. 1845, M.D. 1848.

CLAUDIUS M. JONES (1893). Claudius Marcellus Jones, A.B. 1866, M.D. 1875.

ALFRED HOSMER LINDER (1895). Mrs. George Linder. For a student of sound principles and marked ability.

ARTHUR THEODORE LYMAN AND HENRY STURGIS GREW MEMORIAL SCHOLARSHIP (1926). On March 19, 1951, it was voted by the Corporation . . . "to provide that such income shall be available, until further order of this board, for scholarships in the Medical School, the School of Dental Medicine and the School of Public Health; preference to be given to Chinese students, with the understanding that if none such apply successfully, the income may be used for scholarships for students from elsewhere in the Far East."

MEDICAL SCHOOL CLASS OF 1879 (1909). Established by the Class of 1879 as a loan fund and later converted to a scholarship.

JAMES EWING MEARS, M.D. (1909). J. Ewing Mears. For a student throughout the full course of four years, subject to his scholastic standing and good conduct.

ERNEST OMAR NAY (1947). Ernest Omar Nay, M.D. 1919. For a medical student from the states of Indiana, Illinois or Ohio whose scholarship is above the average and whose financial re-

HARVARD UNIVERSITY

sources are such that he cannot unaided acquire a medical education.

JOSEPH PEARSON OLIVER (1904). Patients of Joseph Pearson Oliver, M.D. 1871. To be awarded to a needy and deserving student of the Medical School.

JOHN ELIOT OVERLANDER (1947). John Eliot Overlander, M.D. 1909. To assist such needy medical students as may be deemed worthy of assistance by the proper authorities.

CHARLES B. PORTER (1897). William L. Chase.

FLAVIUS SEARLE (1921). Miss Mary L. Searle, in memory of her father, Dr. Flavius Searle. The stipend may be divided.

JOSEPH J. SILBERT (1937). For scholarship or loans to needy students.

ELEANOR B. AND CHANNING S. SIMMONS (1954). Scholarships for two needy students.

FRANCIS SKINNER (1905). Francis Skinner, Esq. To be used in small sums to meet the urgent needs of meritorious students in the payment of term-bills or other expenses.

CHARLES PRATT STRONG (1894). Friends and patients of the late Charles Pratt Strong, A.B. 1876, M.D. 1881.

ISAAC SWEETSER (1892). Mrs. Anne M. Sweetser. To be "devoted to the aid of poor students of ability who would not otherwise be able to continue the studies necessary for their profession."

JOHN THOMSON TAYLOR (1899). Mrs. Frederic D. Philips, in memory of her brother, John Thomson Taylor. To be paid to some meritorious undergraduate of the Medical School without regard to his pecuniary circumstances.

MARY THACHER (1956). Mary Thacher. To be applied against the tuition of needy students preferably from first, Yarmouth, Massachusetts, secondly from the Cape Cod region of Massachusetts, and thirdly from Massachusetts.

WALKER SCHOLARSHIPS (1922). Miss Leslie Walton Walker, four scholarships.

DR. CHARLES WALKER

MEDICAL SCHOOL

HELEN L. WALKER

ANNA G. WALKER

LESLIE W. WALKER

ABRAHAM A. WATSON (1923). Miss Catherine E. Walker. For the benefit of students in the Medical School.

MAJOR HARRISON BRIGGS WEBSTER, U.S.A. MEMORIAL (1921). Gift of L. Florence Webster in memory of her son, Class of 1905, to sons of members of that class or to a needy student in the Medical School.

EDWARD WIGGLESWORTH (1897). The family of Edward Wigglesworth, A.B. 1861, M.D. 1865.

SCHOOL OF DENTAL MEDICINE SCHOLARSHIPS

THE ALFORD FUND (1785). Mrs. Joanna Alford. "To be used for scholarships for those students who are under low and indigent circumstances."

DWIGHT M. CLAPP (1926). Clara Josephine Clapp in memory of her husband, Dwight M. Clapp, D.M.D. 1882. For the education of a male student born in Massachusetts, preferably one who has a college education or training of a classical character.

THOMAS ALEXANDER FORSYTH (1929). Thomas Alexander Forsyth. Continuous scholarship to two deserving men who have passed the scholarship requirements.

HARVARD DENTAL ALUMNI (1949). Selection of a candidate shall be based upon character, scholarship, and promise within the field of dentistry. The award may be offered as a scholarship to an undergraduate student of the third or fourth year or as a fellowship for graduate work.

EUGENE HANES SMITH (1920). Alumni Association. To be awarded to a third or fourth year student who has been a student in regular standing during the first and second years.

PETER E. STRAUSS (1922). Emily R. M. Strauss. In memory of her husband.

HARVARD UNIVERSITY

DR. GRACE MILLIKEN FUND (1950). Prize for an outstanding essay on dental health.

FELLOWSHIPS AND SCHOLARSHIPS AVAILABLE IN OTHER DEPARTMENTS
OF THE UNIVERSITY AS WELL AS IN THE MEDICAL SCHOOL AND
SCHOOL OF DENTAL MEDICINE

Unless otherwise stated, applications should be made, before *February 10*, to the Deans of the Medical School and School of Dental Medicine.

AUSTIN FELLOWSHIPS OR SCHOLARSHIPS (1899). Established under the will of Edward Austin.

JASON S. BAILEY SCHOLARSHIPS. Under the residuary bequest of Jason S. Bailey. To establish scholarships for students in said University.

FRANK B. BAIRD, JR., SCHOLARSHIP (1955). Established by the gift of Frank B. Baird, Jr., Foundation.

ELLEN S. BATES (1929). Established under the will of Ellen S. Bates. To be awarded every third year, with the next award to be made in 1958.

BAXENDALE (1928). Established under the will of Esther M. Baxendale. Preference: (1) descendants of Alan Bedford Hudson; (2) students of the name of Baxendale or Hudson; (3) students from the City of Brockton, Mass., or from the Town of Bourne, Mass.

BRIGHT (1880). Established under the will of Jonathan Brown Bright. For descendants of Henry Bright, Jr., of Watertown, Mass., who bear the name of Bright, registered in any department of the University. If there are no such applicants, the scholarships are available only for undergraduates.

DANIEL A. BUCKLEY (1905). Established under the will of Daniel A. Buckley of Cambridge, Mass. For graduates of Latin, High and other public non-sectarian schools in Cambridge whose parents or guardians cannot afford to pay their college expenses.

MEDICAL SCHOOL

Awards to undergraduates will be made by the Committee on Scholarships and Financial Aids in Harvard College.

VICTOR EMANUEL CHAPMAN MEMORIAL (1917). Several donors. In memory of Victor Emanuel Chapman, A.B. 1913, killed in World War I. For a French youth (or youths) for study in some department of Harvard University. Nominations are made by the Institute of International Education, Inc., 1 East 67th Street at Fifth Avenue, New York 21, N. Y., and applications should be filed with the Institute before February 1. A student already enrolled at Harvard should, however, apply through the Dean of his school—final date such applications will be accepted is February 20: February 8 for men in the Graduate School of Arts and Sciences.

JOSEPH HODGES CHOATE MEMORIAL (1919). Harvard Club of New York City. In memory of Ambassador Joseph Hodges Choate, A.B. 1852. Awarded upon the nomination of the Vice-Chancellor of the University of Cambridge, England, to a British subject coming from that University to study in any department of Harvard University.

GEORGE CHASE CHRISTIAN MEMORIAL SCHOLARSHIP (1936). Mrs. George Chase Christian. In memory of her husband, George Chase Christian of the Class of 1895. To be awarded as National Scholarships to residents of Minnesota, for study in any of the graduate and professional schools of Harvard University.

MARK D. CORY SCHOLARSHIP (1954). Established under the will of Mark D. Cory. To be awarded to a worthy student of the Gadsden High School, Gadsden, Alabama. Student to be selected and designated by the faculty of said high school. Administered by the Committee on Scholarships in Harvard College, 20 University Hall.

MYER DANA AND ETTA DANA SCHOLARSHIP OR BENEFICIARY AID (1953). Mrs. Myer Dana. ". . . to provide scholarships or aid . . . to needy and deserving students in the College, Medical School, or Law School. . . ."

HARVARD UNIVERSITY

CHARLES DOWNER SCHOLARSHIP FUND (1927). Established under the will of Charles Downer, A.B. 1889, LL.B. 1892, and available for students registered in any department of the University. Assignment is to be made, preferably, as follows:

- A. (1) To descendants of Joseph and Robert Downer, of Wiltshire, England, who came to America at about the year 1650, provided such descendants bear the surname of Downer.
(2) To those of English or Anglo-Saxon stock, bearing the surname of Downer by right of birth or inheritance.
- The award to each student whose case comes within the above provision will include enough money to pay, in any academic year, his expenses for tuition, books, food, room, and other incidentals.
- B. If the income from the fund is not in this manner wholly used, awards shall be made to those students who are *descendants of members of the Class of 1889* who are in need of assistance. The amount of such scholarships shall be determined by the Authorities as the necessities of the students may require.
- C. Whenever there is a balance of income not used as specified above, then awards shall be made to *those students who are residents of the State of Vermont*. The amount of such scholarships shall, in all cases, be fixed by the Authorities.
- D. If there shall be at any time a balance of income not used as specified above, then awards shall be made to students who are worthy of assistance and of high scholarship, preference to be given to
 - (1) Descendants of graduates of Harvard College, and
 - (2) To those "of that old Anglo-Saxon stock which has gone forth from New England into all parts of the United States and has been the means of giving strength and stability and character to our government."

Or, any balance of income remaining after the award of scholarships as specified in paragraphs A, B, and C above may be used

MEDICAL SCHOOL

for Fellowships for Harvard graduates of high scholarship and of rare and unusual ability who are pursuing special work either at Harvard or at any American or foreign university or school.

JOSEPH EVELETH (1896). Established under the will of Joseph Eveleth. For students in any department of the University.

GAGE SCHOLARSHIP (1948). Established under the will of Dr. Homer Gage. "For one or more scholarships in such departments of the University as the said President and Fellows may determine."

JEAN GAILLARD MEMORIAL FELLOWSHIP (1946). Established in memory of Jean Gaillard, a student of the Ecole Centrale des Arts et Manufactures in Paris, who served as an Aspirant in the French Air Forces, was arrested by the German Gestapo, and died in the German concentration camp at Ravensbrueck April 16, 1945, a victim of Nazi inhumanity. For a French youth for study in any department of Harvard University or of the Massachusetts Institute of Technology. The incumbent from year to year is to be nominated by the Board of Directors of the Ecole Centrale des Arts et Manufactures in Paris.

JOHN TYLER HASSAM (1941). Established under the will of Eleanor Hassam in memory of her father, John Tyler Hassam, A.B. 1863.

LEWIS AND HARRIET HAYDEN (1894). Established under the will of Mrs. Harriet Hayden. Open to colored students in the Medical School, the School of Public Health, and the Dental School. May be divided. Applications should be addressed to the respective School. If not awarded in these Schools, this scholarship is open to colored students in any department of the University.

CHARLES W. HOLTZER (1929). Established under the will of Charles W. Holtzer. For students of German birth who have received their preliminary education in German institutions of learning.

EDWARD WILLIAM HOOPER MEMORIAL (1905). The gift of friends of Edward W. Hooper, 1859. For one or more fellowships in any department of the University.

HARVARD UNIVERSITY

CHARLES LLOYD HUFF SCHOLARSHIP (1949). Established under the will of Anna Elizabeth Huff. Income assigned to Harvard College.

SINCLAIR KENNEDY FUND (1948). Established by Mrs. Rae B. Kennedy. For grants to young men for travel and residence outside the United States. Awarded on recommendation to the Committee from the various Departments and Schools. Nominations due *February 1*. Not open to competition by undergraduates, including graduating seniors in Harvard College.

FRANK KNOX MEMORIAL FELLOWSHIPS (1948). Established by Mrs. Frank Knox in memory of her husband, Colonel Frank Knox, LL.D. (hon.) Harvard, 1942, Secretary of the United States Navy, 1940-44. To be awarded annually:

1. To a student or students chosen from any one of the following nations included in the British Commonwealth: the United Kingdom, the Union of South Africa, Canada, Newfoundland, Australia, and New Zealand, who shall devote a major part of the period of his study in any one of the Faculties of Harvard University. Nominations are ordinarily made to the Committee by the Advisory Selection Committee of The Association of Universities of The British Commonwealth in London, England. The award for 1953-54 will be made to a student from Great Britain.
2. To a recent graduate of Harvard College or to a student having completed at least one year of study in one of Harvard University's graduate Faculties for study in any one of the nations in the British Commonwealth as stated above.

Candidates shall be selected on the basis of future promise of leadership, strength of character, keen mind, a balanced judgment, and a devotion to the democratic ideal.

ARTHUR LEHMAN FUND (1936). Established in memory of Arthur Lehman of the Class of 1894. For fellowships in the graduate and professional schools only of Harvard University.

HORACE LOUIS LEITER MEMORIAL SCHOLARSHIP (1955). Established under the will of Mrs. Marietta D. Leiter in memory of

MEDICAL SCHOOL

her husband, Dr. Horace Louis Leiter, 1900. For scholarships for deserving students.

LINCOLN (1876). Established under the will of Miss Levina Hoar. Preference: students from Lincoln, Mass., registered in any department of the University. If there are no such applicants, the scholarship is available only for an undergraduate.

CHARLES R. LOWELL AND ANNA L. LOWELL SCHOLARSHIP (1949). Established under the will of Anna L. Woodbury. Income assigned to Harvard College.

JAMES J. LOWELL AND ANNA L. WOODBURY SCHOLARSHIP (1949). Established under the will of Anna L. Woodbury. Income assigned to Harvard College.

FRANCES E. MARKOE RESIDUARY BEQUEST (1944). Established under the will of Frances E. Markoe. The income of her residuary bequest to Harvard University to be used "for the establishment of scholarships."

JOHN PARKER (1873). Established under the will of John Parker. For students and graduates of all departments of the University devoting themselves to the study of one of the natural sciences. The income is assigned on recommendation to the Committee from the various Departments and Schools.

FREDERICK E. PARLIN (1928). Established under the will of Albert Norton Parlin. Preference: natives of Malden or Everett, Mass.

WILLIAM PENNOYER BEQUEST (1670). Established under the will of William Pennoyer of England, for two fellows and two scholars; one preferably to be a descendant of Robert Penoyer (a brother of William) and the other . . . [from] . . . New Haven [Colony]. Preference to be given to undergraduate descendants, and if no undergraduates apply, graduate student descendants will be eligible for consideration. Administered jointly by Committee on Scholarships and Financial Aids in Harvard College and Committee on General Scholarships and the Sheldon Fund.

HARVARD UNIVERSITY

ARISTIDES EVANGELUS PHOUTRIDES (1925). Friends of Aristides Evangelus Phoutrides, A.B. 1911, Ph.D. 1915. Available for student of Greek birth or of Greek parentage in any department of the University.

PRINCETON (1910). An alumnus of Princeton University. Preference: a graduate of Princeton University who desires to enter one of the graduate departments of Harvard University. Application should be made to the Dean of the Graduate School of Princeton University before February 10.

LEON W. REDPATH (1938). Established under the will of Mrs. Ellis W. Redpath in memory of her son Leon W. Redpath, A.B. 1898. For deserving students from the State of Ohio, with preference to students from Stark and Tuscarawas Counties.

FRANKLIN REYNOLDS (1925). Established under the will of John F. Reynolds. For students in any department of Harvard University and Radcliffe College who are natives of Marblehead, Mass. Graduate students should submit applications directly to the Committee on Scholarships in Harvard College, 20 University Hall.

JAMES A. RUMRILL (1909). Mrs. James A. Rumrill, in memory of James Augustus Rumrill, A.B. 1859. For a properly qualified graduate of a college or university in Virginia, North Carolina, South Carolina, Florida, Georgia, Tennessee, or Kentucky, who desires to study in one of the graduate departments of Harvard University. The selection of the incumbent is to be made on the advice of the President and Faculty of the institution from which the student comes.

PETER BROOKS SALTONSTALL '43 MEMORIAL FELLOWSHIP (1947). Established by Senator Leverett Saltonstall in memory of his son, Peter B. Saltonstall. To assist a worthy student from the Hawaiian Islands and those islands west of Hawaii, including New Zealand, the Fiji Islands and Australia, in obtaining an education in any department of the University. The purpose of this memorial is to further the education, the health and welfare of the peoples inhabiting the above named regions of the far Pacific. The stipend

MEDICAL SCHOOL

shall be set to supplement the holder's income sufficiently to defray all his basic expenses of tuition, board and room, and in certain instances some travel allowance may be included. Applications due February 1.

ERNEST FREDERICK SLATER SCHOLARSHIP (1955). Under the will of Ernest F. Slater. The income to be awarded as scholarships to qualified residents of the city of Orangeburg, South Carolina, in any of the schools or departments of Harvard University; preference to be given to young men who are descendants by birth or adoption of Edward Frederick Slater. No scholarship will be awarded to students in their first year at the University whether as undergraduates or graduates.

CHARLES H. SMITH BEQUEST (1947). Established under the will of Charles H. Smith. For "the payment of scholarships . . . to students for the time being in said University who shall be graduates from any of the High Schools of the City of Providence; and if there shall at any time, be no such students in said University, then to such other students in said University. . . ."

STOUGHTON (1701). Established under the will of Lieutenant Governor William Stoughton, A.B. 1650. Preference: (1) students from Dorchester, Mass.; (2) students from Milton, Mass.

AUGUSTUS CLIFFORD TOWER (1927). Established under the will of Augustus Clifford Tower. One fellowship to be awarded annually to a graduate of Harvard College for study in a French University, preference to be given to a student of Anglo-Saxon descent; the other to be awarded annually to a French student for study in any graduate department of Harvard University. Nominations for study at Harvard are made by the Institute of International Education, Inc., 1 East 67th Street at Fifth Avenue, New York 21, N. Y., and applications should be filed with the Institute before February 1. A student already enrolled at Harvard should, however, apply through the Dean of his school — final date such applications will be accepted is February 20; February 8 for men in the Graduate School of Arts and Sciences.

THOMAS E. UPHAM CLASS OF 1868 FUND (1939). May be

HARVARD UNIVERSITY

granted annually to a graduate of Harvard College in any department or school of Harvard University who may give evidence of a desire to prepare himself "to serve his country in public offices of trust and responsibility in the gift of the people."

ANNA VAUGHN FOUNDATION (1935). Established under the will of John Vaughn, A.B. 1879. For students who are pursuing studies in any biological science.

SARAH L. VIEHMANN (1936). Established by Henry Bluestone (A.B. 1906) in memory of his mother, Sarah L. Viehmann.

1902 WORLD WAR MEMORIAL (1923). Established by the Class of 1902, in memory of their classmates, André Cheronnet Champollion and Edward Ball Cole, who were killed in World War I, and Elbert Walker Shirk, who died in 1919. Preference: (1) sons of 1902 men killed in World War I; (2) descendants of the members of the Class of 1902. Open to students in any department of the University, with preference to undergraduates.

JENS AUBREY WESTENGARD FUND (1954). Established under the will of Rebecca Aubrey Westengard. "The income is to be applied . . . to the further education of students of promise and standing in any department of the University by providing them with facilities for further education in Europe, Britain or South America, by travel or study, or to the further education of students of promise and standing in any of those countries, by providing them with facilities for further education by travel and study in this country, preferably by study in some department of Harvard University." Students enrolled in, or expecting to enroll in, the Law School should ordinarily apply for the Jens Iverson Westengard Fund administered by that school.

THE JEFFRIES WYMAN SCHOLARSHIP (1924). Established under the will of Mary Wyman Davis in the name of Susan Wyman and Mary Wyman Davis. To be awarded to a student recommended by the Hersey Professor of Anatomy, the James Stillman Professor of Comparative Anatomy, and the Director of the Museum of Comparative Zoology. Preference to be given to a student of Anatomy in any graduate department of the University.

MEDICAL SCHOOL

PRIZES

ISAAC ADLER (1934). Frida Adler. To be awarded once in three years for the best piece of original research within that period in the United States or Canada on any subject within the medical or allied sciences.

BOYLSTON FUND FOR MEDICAL PRIZES (1803). Dr. Ward Nicholas Boylston. A prize or prizes not to exceed \$100 annually. The medical, anatomical, physiological or chemical subject of the thesis to be determined by a Committee.

HENRY ASBURY CHRISTIAN (1937). Dr. Samuel A. Levine. To be awarded annually on or about the seventeenth of February, which is Dr. Christian's birthday, to the student in the Fourth Year Class who has displayed diligence and notable scholarship in his studies and offers promise for the future.

JAMES TOLBERT SHIPLEY (1952). Harriet S. Parker. To be used as a prize for some problem in research by a medical student, to be designated as the James Tolbert Shipley Prize in Medicine. The Dean to designate the award and the research to be conducted.

LOAN FUNDS

Apply at Dean's Office

Funds have been established to which students who are in need of money may make applications for loans.

In case of unforeseen emergency, loans may be made at any time. Loans are made to meet term-bills and cash is provided rarely.

Interest at the rate of 1% per year will be charged on loans, chargeable on the first of July and continuing at this rate until the July 1st subsequent to the completion of three years following a borrower's graduation from the School. Thereafter, interest at the rate of 4½% per year will be charged annually on July 1st on outstanding loans.

In cases where the student borrower, for any reason, leaves the

HARVARD UNIVERSITY

School prior to graduation, interest at the rate of 1% will be charged from the date of loan until the date of separation from the School and interest at the rate of 4½% will be charged thereafter.

Notes are payable at any time but become due on July 1st five years after graduation.

MEDICAL SCHOOL

FRANK W. AND CARL S. ADAMS MEMORIAL LOAN FUND (1955). Established by the Charles E. and Caroline J. Adams Trust as a revolving loan fund.

DAVID L. EDSELL REVOLVING LOAN FUND (1928). Dr. Frederick C. Shattuck established this fund by gift of \$100,000 to be used as a revolving loan fund.

CHARLES WILLIAM ELIOT LOAN FUND (1924). Given anonymously in honor of President Eliot. Principal and interest to be used for loans to students in the Medical School.

HARVARD WAR LOAN (1920). **HARRIET P. KEITH LOAN (1921).** **FRANCIS I. PROCTOR AID FUND (1942).** Harvard Medical School Loan (1954).

SCHOOL OF DENTAL MEDICINE

CHRISTIAN SOLDIER LOAN FUND (1925). Established by Miss Caroline F. Anderson for the benefit of needy and deserving students.

DENTAL ALUMNI LOAN FUND (1927). Dental Alumni Association and Classes of 1900, 1901, 1902, 1904, 1905, 1906, and 1908. To aid any deserving students who require financial assistance.

LUCINDA DAVIS FERNALD FUND (1936). Established by Dr. Adelbert Fernald for the benefit of deserving New England born students of good character.

ROBERT T. MOFFATT FUND (1925). Given by Dr. Robert T. Moffatt for the benefit of deserving students in need of financial aid.

MEDICAL SCHOOL

LECTURESHIPS

The Edward K. Dunham Lectures for the promotion of the medical sciences have been given annually since 1923 by eminent investigators and teachers in one of the branches of the medical sciences or of the basic sciences which contribute toward the advance of medical science in the broadest sense. The lectures are open to the Faculty and students of the Harvard Medical School and College and all other interested professional persons. The lectures are given under the fund established for that purpose by Mary Dows Dunham in memory of her husband, Dr. Edward K. Dunham.

The George W. Gay Lectures upon Medical Ethics are given annually at the Harvard Medical School. The fund for the establishment of these lectures was given in 1917 by Dr. George W. Gay.

The Alpha Omega Alpha Lecturer is to be nominated each year by the Alpha Omega Alpha Society. The honorarium and expenses of the lectureship to be supported from the fund established by the Society in 1952.

The Hanns Sachs Lectures in the field of Freudian psychoanalysis are supported by a gift in memory of Dr. Sachs. One or more may be given in any year.

The Dr. Andrew Yeomans Lectureship Fund has been established by members of the Class of 1934 and the Class of 1935 and friends in memory of Dr. Yeomans. Lectures are to be given annually and the lecturer will be chosen from young clinicians in the fields of clinical research by a committee named by the donors.

THE CANCER COMMISSION OF HARVARD UNIVERSITY

Under the will of the late Mrs. Caroline Brewer Croft a sum of money was received in 1899 for the investigation of the cause and treatment of cancer. Since that time other sums have been contributed for cancer research and the Cancer Commission of Harvard University has been organized.

HARVARD UNIVERSITY

The Commission supports the Huntington Hospital beds, out-patient department, and cancer research laboratories at the Massachusetts General Hospital. It makes grants-in-aid to various departments of the University carrying on investigation on the cancer problem, and provides a service for pathological examination and diagnosis of tumor tissue for the State of Massachusetts. This service was transferred in 1951 from the buildings of the Harvard Medical School to laboratories made available to the Cancer Commission in the newly constructed Cancer Institute of the New England Deaconess Hospital. This move facilitates the Commission's interest in research in pathology and provides for close integration of the activities at the New England Deaconess Hospital and the cancer control activities of the Harvard Medical School and the Harvard School of Public Health.

The functions of the Cancer Commission are exercised by the Committee on Research and Development which is made up of the following members: Nathan Marsh Pusey, Chairman; George Packer Berry, McGeorge Bundy, Roy Orval Greep, Edward Reynolds, James Robbins Reynolds, John Crayton Snyder, Henry Coe Meadow, Executive Secretary.

RESEARCH FUNDS

Application for support of investigations falling within the scope of any of the following research funds should be sent to the Dean.

REAR ADMIRAL W. L. CAPP'S FUND

In 1949 a bequest was received from Edna Ward Capps to be known as the Rear Admiral W. L. Capps Fund, the income from which, under certain circumstances, to be used broadly for the cure and treatment of persons afflicted with diabetes. George W. Thorn, M.D. is Chairman of the Committee administering the income from this fund.

MEDICAL SCHOOL

PROCTOR FUND

A bequest of fifty thousand dollars by Ellen Osborne Proctor, for the purpose of promoting the study of chronic diseases, subsequently has been increased by an additional fifty thousand dollars from another member of the Proctor family. The income of this fund is to be devoted to investigations into the nature and treatment of chronic diseases and the care of persons afflicted with these diseases while in hospitals for such investigations. Arthur T. Hertig, M.D., is Chairman of the Committee administering the income from this fund.

WILLIAM W. WELLINGTON FUND

In 1925 a bequest was received from William H. Wellington to establish the "William W. Wellington Memorial Research Fund." The income of this fund is to be applied for research concerning the etiology and therapeutics of the diseases of man. Arthur T. Hertig, M.D., is Chairman of the Committee administering the income from this fund.

COURSES FOR GRADUATES

The object of this department of the Medical School is to offer to graduates in Medicine opportunities to continue their studies in a thorough and scientific manner.

For information concerning courses offered, the *Catalogue of Courses for Graduates* should be consulted.

Facilities at the Harvard Medical School and the abundant clinical opportunities in the various hospitals are available for graduate instruction. Eugene C. Eppinger, M.D., Assistant Dean, is in charge.

SCHOOL OF PUBLIC HEALTH

The School of Public Health is one of the graduate schools of the University. Its purpose is to provide training and research opportunities to those interested in community health problems. Courses are given in sciences basic to community health work,

HARVARD UNIVERSITY

such as biostatistics, epidemiology, and the public health aspects of microbiology, nutrition and physiology. The community application of health knowledge is also discussed in general and as it concerns special fields such as maternal and child health, industrial health, tropical public health, medical care, mental health, chronic disease control, geriatrics, health education, public health nursing, public health social work, sanitation, etc.

Much of the teaching and research activity of the School is concerned with international health problems and the preparation of people for work in this field.

Courses may be taken singly on approval of the head of the department concerned. For further information, apply to the Secretary of the School at 55 Shattuck Street.

OPPORTUNITIES FOR RESEARCH

The research programs of the Medical School and its associated teaching hospitals offer to students exceptional opportunities for participating in research.

Medical students are encouraged to participate in research activities during the summer or on a part-time basis during the academic year. In exceptional cases students may elect up to a full year to carry on research in the United States or abroad. Limited funds are available for support of students in these activities.

The Tutorial System was established in 1923 to provide a focus for undergraduate research activities and to assist students in being placed with the member of the Faculty best suited to their particular interests. Under this System, fourth year students who have shown promise in extracurricular research may, with Faculty approval, devote from four to six months of their curriculum to a specific problem in one of the basic sciences or major clinical divisions.

Students are urged to discuss their interests in research with the members of the Tutorial Committee, the Faculty or with the Dean's Office.

MEDICAL SCHOOL

THE UNDERGRADUATE ASSEMBLY

The Undergraduate Assembly, held late in the spring of each year under student auspices, provides an opportunity for students from all classes to present formally the results of their investigations to the students and Faculty of the Medical School. The Soma Weiss Award is made at this meeting.

HARVARD UNIVERSITY

DIVISION OF STUDIES TOTAL NUMBER OF HOURS FOR EACH SUBJECT

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Anatomy	280 Bacteriology	200 Medicine	213 Medicine 288
Histology	280 Pathology	357 Dermatology	37 Surgery 288
Physiology	256 (including Parasitology and Neuro-pathology)	357 Neurology	39 Obstetrics 144
Biochemistry	256 Pharmacology	Psychiatry	44 Pediatrics 144
Medical Psychology	Laboratory Diagnosis	Ophthalmology	23 Psychiatry 144
	Physical Diagnosis	Surgery	205 Elective 144
	Surgery	Gynecology	33 G. U. Surgery 27
	Obstetrics	Laryngology and Otology	40
	Neurology and Psychiatry	100 Orthopedic Surgery	38
		12	128
		Obstetrics	68
		Pediatrics	
		24 Preventive Medicine	
		135 Legal Medicine	
		12	

MEDICAL SCHOOL

ANNOUNCEMENT OF COURSES *

The "Announcement of Courses" comprises a statement by each department as to its general plan of instruction and its various required exercises, followed by a résumé of the Fourth Year Elective Courses and the Voluntary Courses.

Each student in the fourth year must secure credit for eight one-month courses of 144 hours or their equivalent. Required courses fill seven months' time, leaving one month free for elective work. In the following statements whole courses have a value of 144 hours and half-courses of 72 hours.

An opportunity for voluntary work is offered to second and third year students on Tuesday and Thursday afternoons. It is believed that upperclassmen will welcome a chance to keep in touch with the most recent developments in the fundamental sciences; that an interest in certain fundamental subjects will have been aroused by their clinical work; or that they may feel the desire for additional training on some point. Students are not required or even asked to take this work. It is entirely a voluntary matter, and no credit will be given.

There are also opportunities for association with voluntary groups interested in studying the more general aspects of medicine, including the economic, social and historical aspects.

Abbreviations used in the following pages, and in the tabular views:

B.C.H.	= Boston City Hospital.	H.M.S.	= Harvard Medical School.
B.I.H.	= Beth Israel Hospital.		
B.L.I.H.	= Boston Lying-in Hos- pital.	H.M.H.	= Haynes Memorial Hospital.
C.M.C.	= Children's Medical Center.	L.I.H.	= Long Island Hospital.
F.H.W.	= Free Hospital for Women.	McL.H.	= McLean Hospital.
		M.E.I.	= Massachusetts Eye and Ear Infirmary.

* Special pamphlets are issued describing the opportunities for elective and voluntary work and outlining the conditions under which such work may be undertaken.

Abbreviations (continued)

M.G.H.	= Massachusetts General Hospital.	P.B.B.H.	= Peter Bent Brigham Hospital.
M.I.T.	= Massachusetts Institute of Technology.	P.L.I.H.	= Providence Lying-in Hospital.
M.M.H.C.	= Massachusetts Mental Health Center	S.D.M.	= School of Dental Medicine.
Mt.A.H.	= Mount Auburn Hospital.	S.P.H.	= School of Public Health.
N.E.D.H.	= New England Deaconess Hospital.	W.R.V.A.H.	= West Roxbury V.A. Hospital.

Anatomy

GEORGE B. WISLOCKI, M.D., A.M. (hon.), S.D. (hon.), Hersey Professor of Anatomy and James Stillman Professor of Comparative Anatomy, and Head of the Department (died on October 22, 1956).

ROY O. GREEP, PH.D., A.M. (hon.), Professor of Anatomy in the School of Dental Medicine and Dean of the School of Dental Medicine, and Acting Head of the Department of Anatomy.

WILLIAM C. YOUNG, PH.D., Visiting Professor of Anatomy.

EDWARD A. EDWARDS, M.D., Associate Clinical Professor of Anatomy.

FRANKLIN F. SNYDER, M.D., Associate Professor of Anatomy and Obstetrics.

RUSSELL J. BARRNETT, M.D., Assistant Professor of Anatomy.

GEORGE E. ERIKSON, PH.D., Assistant Professor of Anatomy.

JESSE F. SCOTT, M.D., Assistant Professor of Anatomy.

JACK DAVIES, M.B., CH.B., Lecturer on Anatomy.

AARON J. LADMAN, PH.D., Associate in Anatomy.

HELEN A. PADYKULA, PH.D., Associate in Anatomy.

LEON P. WEISS, M.D., Associate in Anatomy.

CLARENCE J. GAMBLE, M.D., Research Associate in Anatomy.

CHARLES P. LYMAN, PH.D., Research Associate in Anatomy.

JOHN F. SCHMETJE, PH.D., Instructor in Anatomy.

MEDICAL SCHOOL

JAY B. ANGEVINE, JR., PH.D., Assistant in Neuroanatomy in the Department of Neuropathology.

WILLARD D. ROTH, PH.D., Research Fellow in Anatomy.

NORMAN BRACHFELD, M.D., Teaching Fellow in Anatomy (appointment expired Jan. 31, 1957).

ALF E. GUNDERSEN, M.D., Teaching Fellow in Anatomy (appointment expired Jan. 31, 1957).

Affiliated:

ALFRED POPE, M.D., Associate Professor of Neuropathology at the McLean Hospital (Massachusetts General Hospital).

In the Department of Anatomy, instruction is given in gross human anatomy, histology, neurology, and embryology. Opportunities are also afforded for advanced work and investigation in these subjects.

The department occupies the Morgan Anatomical Building, the dissecting rooms, being in the wing designated BI, and the laboratories for histology and embryology in the wing BII. There are separate rooms for fourth year and graduate students and for various kinds of technical work. The class work is carried on by sections in unit rooms, designed to accommodate either twelve or twenty-four students. There is a large library which contains complete files of the most important anatomical and morphological journals, together with many standard works of reference, and in an adjoining room there is a collection of about fifteen thousand pamphlets. A card catalogue and a classified bibliography give ready access to the literature.

The embryological collection is a unique feature of the laboratory. It comprises about twenty-three hundred series of sections of carefully selected vertebrate embryos, and affords therefore opportunities for research in comparative embryology such as cannot be found elsewhere. The collection includes eighty series of sections of human embryos.

HARVARD UNIVERSITY

REQUIRED COURSES

ANATOMY A AND B. *First Year.*—The courses of the first year are intended to teach human anatomy, both gross and microscopic, together with the essentials of human embryology and neurology. Half of the time is devoted to work in the dissecting rooms, the other half to work in the histological laboratories.

In the study of gross anatomy, students make a complete dissection of one half of the human body, and all of the class dissect the same part at the same time. Four students will be assigned to the same subject, and will work together during the course. The study of the skeleton is carried on with the dissection, and each student will be provided with a box of bones which may be kept throughout the course. There will be lectures or demonstrations which will serve to emphasize the clinical application of gross anatomical relations and to teach certain aspects of human biology not adequately treated in the textbooks. Special dissections made by prosector from the second year class, frozen sections, and various anatomical specimens and preparations will be displayed to supplement the student's own dissections. Students are urged to examine these specimens carefully, and to discuss them informally with the instructors. Students will be quizzed from time to time on their work in the laboratory by the instructors in charge of their section.

The part of the course dealing with microscopic anatomy is designed to give the student a familiarity with the normal appearances of cells, tissues and organs. As much as is possible in a brief course, the development of tissues and organs is stressed. Opportunity is also given for the study of fresh tissues. The use of fresh tissues is intended to acquaint the student with the structure of living cells and with evidence of cellular functions. Numerous demonstrations are given to present the range of histological technique, including cytological and histochemical preparations. Pictures obtained with the electron microscope are placed on display.

The last five weeks of the course of microscopic anatomy are devoted to the study of the central nervous system. The student is given an opportunity to become familiar with the positions and relations of the principal nuclei and tracts of the nervous system by the study of gross specimens and of serial sections through the brain stem. Emphasis is laid on the anatomicophysiological point of view. The

MEDICAL SCHOOL

department owns exceptionally valuable neurological material for both teaching and research, including two entire human brains cut serially in the transverse and horizontal planes, with the sections alternately stained by the Pal-Weigert and Nissl methods.

FIRST YEAR	HOURS
Lectures. Drs. GREEP, ERIKSON, EDWARDS, BARRNETT, POPE, SCOTT, LADMAN, PADYKULA, WEISS, ROTH, ANGEVINE and SCHMEDTJE. <i>Six lectures a week, first half-year.</i>	96
Demonstrations. <i>To sections of the class, at the pleasure of the instructors.</i>	
Laboratory work. <i>Twenty-nine hours a week, first half-year.</i>	464

FOURTH YEAR ELECTIVE COURSES

1. Surgical Anatomy. Dr. EDWARDS and Associates. Whole course, one month.
20. Investigation. Dr. WISLOCKI and Associates. Opportunities are offered for students who wish to do special or advanced work.

VOLUNTARY COURSE

30. Clinical Introduction to Anatomy. M.G.H., B.C.H., P.B.B.H., B.I.H. and C.M.C. Saturdays, 9 a.m. to 12 m., first half-year. Open to first year students. (same course as Surgery 31)

These clinics serve to introduce the first year student to the patient. Whenever possible, the clinics are arranged with reference to the anatomical dissection. The subject matter is not limited to gross anatomy, however, and the clinics cover a wide range of topics in medicine, surgery, obstetrics and pediatrics.

Physiology

EUGENE M. LANDIS, M.D., Ph.D., S.M. (hon.), George Higginson
Professor of Physiology and Head of the Department.

JOHN R. PAPPENHEIMER, Ph.D., Career Investigator of the Ameri-
can Heart Association and Visiting Professor of Physiology.

A. CLIFFORD BARGER, M.D., Associate Professor of Physiology.

EDGAR L. GASTEIGER, Jr., Ph.D., Assistant Professor of Physiology.

HARVARD UNIVERSITY

ELWOOD HENNEMAN, M.D., Assistant Professor of Physiology and
Ella Sachs Plotz Fellow.

ERNEST KNOBIL, PH.D., Assistant Professor of Physiology.

* ARTHUR K. SOLOMON, PH.D., DR.PHIL., Assistant Professor of
Physiological Chemistry.

RICHARD P. DURBIN, PH.D., Associate in Physiology.

HANS J. SCHATZMANN, M.D., Research Associate in Physiology.

MELVIN J. FREGLY, PH.D., Instructor in Physiology (resigned
August 31, 1956).

WILLIAM B. KINTER, PH.D., Instructor in Physiology.

FRANCIS E. YATES, M.D., Instructor in Physiology.

RICHARD D. BERLIN, A.B., Research Fellow in Physiology.

DONALD W. RENNIE, M.D., Research Fellow in Physiology.

DONALD H. WALTERS, M.D., Research Fellow in Physiology.

RAIMUNDO VILLEGAS, M.D., Research Fellow in Physiology.

HOWARD S. FRAZIER, PH.D., M.D., William O. Moseley Jr. Travel-
ling Fellow.

Affiliated:

JEAN MAYER, PH.D., D.Sc., Assistant Professor of Nutrition,
S.P.H.

REQUIRED COURSE

PYHSIOLOGY A. First Year. — The lectures of this course are designed to acquaint the student with the more fundamental aspects of physiology and to consider in detail those portions of the subject that are essential to an understanding of the phenomena of health and disease in man.

By means of laboratory exercises the student is introduced as rapidly as possible to the observational methods and techniques available for studying function in man. Then equal emphasis is placed upon exercises illustrating in animals the experimental procedures employed for the detailed analysis of function and for the acquisition of a fundamental knowledge of physiology.

Conferences and demonstrations supplement the more formal instruction.

* Appointment under the Committee on Medical Research in Biophysics.

MEDICAL SCHOOL

FIRST YEAR

HOURS

Lectures and Laboratory work. Drs. LANDIS, BARGER, GAS- TEIGER, HENNEMAN, FREGLY, KINTER, KNOBIL, SOLOMON and YATES. <i>Three days a week, second half-year.</i>	256
--	-----

FOURTH YEAR ELECTIVE COURSES

20. Physiological Investigation. Dr. LANDIS and Associates. Students will not ordinarily be received for less than two months.
21. Use of Isotopes in Biological Research. Dr. A. K. SOLOMON. Investigation not less than one full course. For admission consult Dr. SOLOMON directly.

Biological Chemistry

A. BAIRD HASTINGS, PH.D., A.M. (hon.), S.D. (hon.), Hamilton Kuhn Professor of Biological Chemistry and Head of the Department.

ERIC G. BALL, PH.D., S.D. (hon.), Professor of Biological Chemistry and Chairman of the Division of Medical Sciences of the Faculty of Arts and Sciences.

CYRUS H. FISKE, M.D., Professor of Biological Chemistry.

JORDI FOLCH-PI, M.D., Professor of Neurochemistry at the McLean Hospital.

FRITZ A. LIPPMANN, M.D., DR.PHIL., A.M. (hon.), Professor of Biological Chemistry at the Massachusetts General Hospital.

JOHN L. ONCLEY, PH.D., Professor of Biological Chemistry.

LEWIS L. ENGEL, PH.D., Assistant Professor of Biological Chemistry at the Massachusetts General Hospital.

MANFRED LESLIE KARNOVSKY, PH.D., Assistant Professor of Biological Chemistry.

WALTER E. KNOX, M.D., Assistant Professor of Biological Chemistry at the New England Deaconess Hospital.

BARBARA W. LOW, DR.PHIL., Assistant Professor of Physical Chemistry (Faculty of Arts and Sciences) resigned August 31, 1956.

F. LEE RODKEY, PH.D., Edward S. Wood Assistant Professor of Biological Chemistry.

HARVARD UNIVERSITY

*ARTHUR K. SOLOMON, PH.D., DR.PHIL., Assistant Professor of Physiological Chemistry.

DOUGLAS M. SURGENOR, PH.D., Assistant Professor of Biological Chemistry.

CLAUDE A. VILLEE, JR., PH.D., Assistant Professor of Biological Chemistry and Tutor in the Preclinical Sciences.

JAMES ASHMORE, PH.D., Associate in Biological Chemistry.

DAVID H. ELWYN, PH.D., Associate in Biological Chemistry.

FRED M. SNELL, M.D., PH.D., Associate in Biological Chemistry.

CORNELIUS F. STRITTMATTER, 4TH, PH.D., Associate in Biological Chemistry.

ADELBERT AMES, 3RD, Research Associate in Biological Chemistry.

GEORGE HAUSER, PH.D., Research Associate in Biological Chemistry.

MARGARET J. HUNTER, PH.D., Research Associate in Biological Chemistry.

FRANCIS N. LEBARON, PH.D., Research Associate in Biological Chemistry.

BILLY BAGGETT, PH.D., Instructor in Biological Chemistry.

DWAIN D. HAGERMAN, M.D., Instructor in Biological Chemistry.

THOMAS E. THOMPSON, PH.D., Research Fellow in Biological Chemistry (appointment expired January 15, 1957).

EDMUND C. C. LIN, A.B., Teaching Fellow in Biological Chemistry.

MARTIN J. NEMER, A.M., Teaching Fellow in Biological Chemistry.

RESEARCH APPOINTMENTS IN BIOLOGICAL CHEMISTRY

ROGER W. JEANLOZ, D.Sc., Research Associate in Biological Chemistry.

CHARLES V. ROBINSON, PH.D., Research Associate in Biological Chemistry.

HUGO W. MOSER, M.D., Assistant in Biological Chemistry.

CLARA B. SHOEMAKER, PH.D., Assistant in Biological Chemistry (appointment expired August 31, 1956).

* Appointment under the Committee on Medical Research in Biophysics.

MEDICAL SCHOOL

- GEORGE F. CAHILL, JR., M.D., Research Fellow in Biological Chemistry.
- DAVID G. CORNWELL, PH.D., Research Fellow in Biological Chemistry (resigned September 15, 1956).
- MARTHA L. LUDWIG, PH.D., Research Fellow in Biological Chemistry.
- PETER R. PINNOCK, PH.D., Research Fellow in Biological Chemistry (appointment expired August 31, 1956).
- MARY JANE SPIRO, PH.D., Research Fellow in Biological Chemistry.
- ROBERT G. SPIRO, M.D., Research Fellow in Biological Chemistry.
- ELENA C. VILLARAMA, S.B., Research Fellow in Biological Chemistry (appointment expired September 15, 1956).

Affiliated:

- FREDRICK J. STARE, PH.D., M.D., Professor of Nutrition, S.P.H.
- D. MARK HEGSTED, PH.D., Associate Professor of Nutrition, S.P.H.
- JAMES H. SHAW, PH.D., Associate Professor of Biological Chemistry in the School of Dental Medicine.
- JIN H. KINOSHITA, PH.D., Associate in Biological Chemistry in the Howe Laboratory of Ophthalmology.
- GEORGE NICHOLS, JR., M.D., Associate in Medicine.

REQUIRED COURSE

BIOLOGICAL CHEMISTRY A. *First Year.* — The lectures in this course consist of a brief discussion of the theories of chemical constitution and a survey of those classes of chemical substances which are to be found in animals and plants, and of the general principles and more important facts of physiological chemistry.

The laboratory practice is designed to acquaint the student with some of the more important constituents of living matter and their chemical behavior, and with some of the routine methods of biochemical investigation.

Conferences and discussions of selected topics supplement the main work of the course.

HARVARD UNIVERSITY

FIRST YEAR	HOURS
Lectures and Laboratory work. Drs. HASTINGS, BALL, STARE, HEGSTED, ENGEL, KARNOVSKY, KNOX, RODKEY, SURGENOR, VILLEE, ELWYN, SNELL, STRITTMATTER and Associates. <i>Three times a week, second half-year.</i>	256

FOURTH YEAR ELECTIVE COURSES

20. Biological Chemistry and Nutrition. Drs. HASTINGS, BALL, STARE and Associates. An opportunity is offered for special study in advanced biological chemistry and nutrition for one or more months. Arrangement for work may be made by consultation with members of the staff.
21. Use of Isotopes in Biological Research. Dr. A. K. SOLOMON. Investigation not less than one full course. For admission consult Dr. SOLOMON directly.
22. Research in the Chemistry of Biological Substances and Systems. Drs. ONCLEY, SURGENOR and HUNTER. Investigation. Not less than one full course.

VOLUNTARY COURSES

30. Advanced Biological Chemistry. Dr. HASTINGS and Associates. First semester. Time to be arranged.
31. Clinical Nutrition. Dr. STARE and Associates. Time to be arranged.
33. Advanced Biological Chemistry. Physical Chemistry of Proteins and Other Biological Substances. Dr. ONCLEY and Associates. Tuesday and Thursday afternoons throughout the year. Lecture and Laboratory work.

Bacteriology

GEORGE PACKER BERRY, M.D., LL.D., M.A. (hon.), S.D. (hon.), LITT.D., L.H.D., Professor of Bacteriology and Dean of the Faculty of Medicine.

ALBERT H. COONS, M.D., Career Investigator of the American Heart Association and Visiting Professor of Bacteriology and Immunology.

MEDICAL SCHOOL

- JOHN F. ENDERS, PH.D., Professor of Bacteriology and Immunology at the Children's Hospital.
- MONROE D. EATON, M.D., Associate Professor of Bacteriology and Immunology and Acting Head of the Department.
- BORIS MAGASANIK, PH.D., Silas Arnold Houghton Assistant Professor of Bacteriology and Immunology.
- CH'IENT LIU, M.D., Associate in Bacteriology and Immunology.
- ROBERT A. MACCREADY, M.D., Associate in Bacteriology and Immunology.
- H. EDWIN UMBARGER, PH.D., Associate in Bacteriology and Immunology.
- BYRON H. WAKSMAN, M.D., Associate in Bacteriology and Immunology at the Massachusetts General Hospital.
- JOHN H. HANKS, PH.D., Lecturer on Bacteriology and Immunology.
- ARNOLD F. BRODIE, PH.D., Research Associate in Bacteriology and Immunology.
- STEPHEN D. ELEK, M.D., PH.D., Research Associate in Bacteriology and Immunology (appointment expired December 31, 1956).
- CLARKE T. GRAY, PH.D., Research Associate in Bacteriology and Immunology.
- SIDNEY LESKOWITZ, PH.D., Research Associate in Bacteriology and Immunology in the Department of Gynecology.
- JOHN H. WALLACE, PH.D., Research Associate in Bacteriology and Immunology.
- BARBARA K. WATSON, PH.D., Research Associate in Bacteriology and Immunology.
- HAROLD AMOS, PH.D., Instructor in Bacteriology and Immunology.
- MARCUS S. BROOKE, PH.D., Instructor in Bacteriology and Immunology.
- MELVIN H. KAPLAN, M.D., Instructor in Bacteriology and Immunology.
- LAWRENCE J. J. KUNZ, PH.D., Instructor in Bacteriology and Immunology.

HARVARD UNIVERSITY

- ALVIN S. LEVINE, PH.D., Instructor in Bacteriology and Immunology.
- MORTON M. WEBER, Sc.D., Instructor in Bacteriology and Immunology.
- DONALD F. BENT, PH.D., Assistant in Bacteriology and Immunology.
- HEATHER B. DONALD, PH.D., Harold C. Ernst Research Fellow in Bacteriology and Immunology (appointment expired March 31, 1957).
- MARION FAIRMAN, PH.D., Research Fellow in Bacteriology and Immunology.
- ROBERT S. GOHD, PH.D., Research Fellow in Bacteriology and Immunology in the Department of Otology and Laryngology.
- MORTIMER LITT, M.D., Research Fellow in Bacteriology and Immunology.
- HARRIS S. MOYED, PH.D., Research Fellow in Bacteriology and Immunology.
- FREDERICK C. NEIDHARDT, PH.D., Harold C. Ernst Research Fellow in Bacteriology and Immunology (appointment expired August 31, 1956).
- ANTHONY J. SBARRA, PH.D., Research Fellow in Bacteriology and Immunology.

Affiliated:

- JOHN C. SNYDER, M.D., Professor of Public Health Bacteriology and Dean of the School of Public Health.
- JOHN T. SHARP, M.D., Research Associate in Medicine.

The personnel and equipment of the Department of Bacteriology are prepared to supply instruction and opportunities for investigation to properly qualified undergraduate and graduate students in general bacteriology, pathogenic bacteriology, bacterial metabolism, virology, chemotherapy, and the problems of immunity.

MEDICAL SCHOOL

REQUIRED COURSE

BACTERIOLOGY A. Second Year.—The required course for medical students is taught by lectures, laboratory work, and conferences. Stress in this course is laid upon those parts of bacteriology and immunology which are directly pertinent to the pathology of infectious disease, its practical diagnosis and treatment. The students are introduced as rapidly as possible to the medical problems of bacteriology, and the subjects taught are illustrated by material obtained from the associated hospitals. Immunological and seriological technic in its practical aspects is dealt with by group instruction, and the preventive aspects of the physician's duties in relation to infectious diseases are considered as thoroughly as time permits.

SECOND YEAR	HOURS
Lectures. Drs. EATON, COON, MAGASANIK, UMBARGER, LIU and Associates. <i>Monday, Wednesday, and Friday afternoons.</i> <i>Conferences and clinics on alternate Tuesday, Thursday,</i> <i>and Saturday mornings, first half-year.</i>	104
Laboratory work. Drs. EATON, COONS, MAGASANIK, UM- BARGER, LIU and Associates. <i>Two hours, Monday, Wed- nesday, and Friday afternoons, first half-year.</i>	96

FOURTH YEAR ELECTIVE COURSE

20. Research. Drs. EATON, ENDERS and Associates. The Department of Bacteriology offers opportunity for special study for one or more months. Students will be accepted for such work and the nature of their studies will be determined by individual conferences between the applicants and members of the staff of the department.

VOLUNTARY COURSE

30. Research. Opportunity for research will be given to qualified students upon consultation with members of the staff.

Pathology

- ARTHUR T. HERTIG, M.D., Shattuck Professor of Pathological Anatomy and Head of the Department.
- BENJAMIN CASTLEMAN, M.D., Clinical Professor of Pathology.
- GUSTAVE J. DAMMIN, M.D., Professor of Pathology at the Peter Bent Brigham Hospital.
- SIDNEY FARBER, M.D., Professor of Pathology at the Children's Hospital.
- DAVID G. FREIMAN, M.D., Clinical Professor of Pathology.
- SHIELDS WARREN, M.D., S.D. (hon.), Professor of Pathology at the New England Deaconess Hospital.
- SAMUEL P. HICKS, M.D., Associate Clinical Professor of Pathology.
- WILLIAM A. MEISSNER, M.D., Associate Clinical Professor of Pathology.
- JOHN MERRILL CRAIG, M.D., Assistant Professor of Pathology at the Children's Hospital.
- PHILIP M. LECOMPTE, M.D., Assistant Clinical Professor of Pathology.
- JACOB FURTH, M.D., Lecturer on Pathology.
- JOHN P. AYER, M.D., Clinical Associate in Pathology.
- DANTE F. CAMPAGNA-PINTO, M.D., Clinical Associate in Pathology.
- GEORGE W. CURTIS, M.D., Clinical Associate in Pathology.
- IRA GORE, M.D., Clinical Associate in Pathology.
- JOHANNES P. KULKA, M.D., Associate in Pathology at the Peter Bent Brigham Hospital.
- GUIDO MAJNO, M.D., Associate in Pathology.
- DONALD G. MCKAY, M.D., Associate in Pathology at the Boston Lying-in Hospital and the Free Hospital for Women.
- ROBERT E. SCULLY, M.D., Clinical Associate in Pathology.
- EDGAR B. TAFT, M.D., Associate in Pathology at the Massachusetts General Hospital.
- BETTY B. G. UZMAN, M.D., Associate in Pathology at the Children's Hospital.
- AUSTIN L. VICKERY, JR., M.D., Clinical Associate in Pathology.
- G. KENNETH MALLORY, M.D., Lecturer on Pathology.

MEDICAL SCHOOL

- STANLEY L. ROBBINS, M.D., Lecturer on Pathology.
SHELDON C. SOMMERS, M.D., Lecturer on Pathology.
VIRGINIA D. CHASE, M.D., Research Associate in Pathology.
ALLEN C. CROCKER, M.D., Research Associate in Pathology.
GEORGE E. FOLEY, D.Sc., Research Associate in Pathology.
OLIVE GATES, M.D., Research Associate in Pathology.
MORRIS N. GREEN, PH.D., Research Associate in Pathology.
ALFRED H. HANDLER, PH.D., Research Associate in Pathology.
CHARLOTTE L. MADDOCK, PH.D., Research Associate in Pathology.
ADELE K. MAGASANIK, PH.D., Research Associate in Pathology.
EDWARD J. MODEST, PH.D., Research Associate in Pathology.
GEORGE YERGAINIAN, PH.D., Research Associate in Pathology.
WADI A. BARDAWIL, M.D., Instructor in Pathology.
KURT BENIRSCHKE, M.D., Instructor in Pathology.
BRADLEY BIGELOW, M.D., Instructor in Pathology.
ALEXANDRE M. DE C. CARDOSO, M.D., Instructor in Pathology
(resigned January 18, 1957).
RICHARD B. COHEN, M.D., Instructor in Pathology.
BRADLEY E. COPELAND, M.D., Instructor in Pathology.
CHARLES J. DE WAN, M.D., Instructor in Pathology.
ROBERT FIENBERG, M.D., Instructor in Pathology.
LLOYD C. FOGG, PH.D., Instructor in Pathology.
EARL "E" HELLERSTEIN, M.D., Instructor in Pathology.
JOHN D. HOUGHTON, M.D., Instructor in Pathology.
RAYMOND A. JUSTI, M.D., Instructor in Pathology.
MORRIS J. KARNOVSKY, M.D., CH.B., Instructor in Pathology.
MERLE A. LEGG, M.D., C.M., Instructor in Pathology.
HAZEL MANSELL, M.B., CH.B., Instructor in Pathology.
SI-CHUN MING, M.D., Instructor in Pathology.
FELIX RODRIGUEZ (Y LEGASPI), M.D., Instructor in Pathology.
AGNES B. RUSSFIELD, PH.D., M.D., Instructor in Pathology.
REUBEN Z. SCHULZ, M.D., Instructor in Pathology.
JACOB N. SHANBERGE, M.D., Instructor in Pathology.
RONALD C. SNIFFEN, M.D., Instructor in Pathology.
DAVID SPIRO, M.D., Instructor in Pathology.
ARON E. SZULMAN, M.B., CH.B., Instructor in Pathology.

HARVARD UNIVERSITY

JOHN L. TULLIS, M.D., Instructor in Pathology.
GORDON F. VAWTER, M.D., Instructor in Pathology.
CALVIN J. WEGNER, M.D., Instructor in Pathology.
MILORAD ANDRIAL, M.D., Assistant in Pathology (appointment expired September 30, 1956).
LEONARD ATKINS, M.D., Assistant in Pathology.
CARL A. HARRIS, PH.D., M.D., Assistant in Pathology.
LORNA D. JOHNSON, M.D., Assistant in Pathology.
WAN CHING LU, PH.D., Assistant in Pathology.
GARY PAT PAPARO, M.D., Assistant in Pathology.
JOHN V. GARRETT, M.B., CH.B., Research Fellow in Pathology.
CHARLES J. ALEXANDER, M.D., C.M., Teaching Fellow in Pathology.
MARGARET M. BEATH, M.B., CH.B., Teaching Fellow in Pathology.
JOSEPH M. CORSON, M.D., Teaching Fellow in Pathology.
REYNOUT DONNER, M.D., Teaching Fellow in Pathology.
HUGH R. DUDLEY, JR., M.D., Teaching Fellow in Pathology.
BURTON D. GOLDBERG, M.D., Teaching Fellow in Pathology.
WALTER B. KING, JR., M.D., Teaching Fellow in Pathology.
LEWIS T. MANN, JR., PH.D., Research Fellow in Pathology.
JEAN-PIERRE MUHLETHANLER, M.D., Teaching Fellow in Pathology.
EUGENE V. PERRIN, M.D., Teaching Fellow in Pathology.
EDWARD S. REYNOLDS, JR., M.D., Teaching Fellow in Pathology.
JOHN C. SMITH, 2ND, M.D., Teaching Fellow in Pathology.

Affiliated:

BENITO MONIS, M.D., Research Fellow in Pathology in the Department of Surgery.

REQUIRED COURSE

PATHEOLOGY A. *Second Year*. — The second year course in pathology is planned as a systematic survey of pathology. It consists of lectures, laboratory study of pathologic histology and demonstrations of gross pathologic material, partly from fixed specimens drawn from the Warren Museum, but more extensively from demonstrations of fresh

MEDICAL SCHOOL

autopsy and surgical material brought from the laboratories of the affiliated hospitals. Students visit the Pathology Laboratories of the Boston City Hospital, Massachusetts General Hospital, Peter Bent Brigham Hospital, Children's Hospital, Beth Israel Hospital, the Free Hospital for Women and the New England Deaconess Hospital, for participation in performance of autopsies.

Lectures are given three days in the week by the staff. The course is divided roughly, though not sharply, into general and special pathology, covering in the first part of the year basic pathologic processes, such as tissue injury and repair, inflammation, tissue responses to specific infectious agents and neoplasia. In the second half of the course the diseases of the important organs and systems are considered in some detail. The pathology of the eye, skin, oral cavity and vitamin deficiencies are covered in collaboration with other departments of the University.

Courses in Parasitology and Neuropathology are given separately by the respective departments but under the nominal jurisdiction of this Department. The course in Clinical Pathology is under the direction of the Department of Medicine.

SECOND YEAR	HOURS
Lectures, Dr. HERTIG and Associates. <i>Mondays, Wednesdays, and Fridays, for twenty-six weeks.</i>	78
Laboratory work. Dr. HERTIG and Associates. <i>Two and a half hours, Mondays, Wednesdays, and Fridays.</i>	195

FOURTH YEAR ELECTIVE COURSES

1. Advanced Pathology. Dr. CASTLEMAN. M.G.H. Whole course, all day.
2. Advanced Pathology. Dr. G. K. MALLORY, B.C.H. Whole course, all day.
3. Advanced Pathology. Dr. DAMMIN, P.B.B.H. Whole course, all day.
4. The Pathology of the Endocrine Diseases. Dr. S. WARREN. N.E.D.H. Whole course, all day.
5. The Pathology of Tumors. Dr. S. WARREN. N.E.D.H. Whole course, all day.
7. Advanced Pathology. Dr. FARBER. C.H. Whole course, all day.

HARVARD UNIVERSITY

8. Advanced Pathology. Dr. FREIMAN. B.I.H. Whole course, all day.

Tropical Public Health

This course is given by members of the Faculty of the Harvard School of Public Health.

THOMAS H. WELLER, M.D., LL.D., Richard Pearson Strong Professor of Tropical Public Health and Head of the Department.

DONALD L. AUGUSTINE, S.D., S.D. (hon.), Professor of Tropical Public Health.

FRANKLIN A. NEVA, M.D., Assistant Professor of Tropical Public Health.

ELI CHERNIN, S.D., Assistant Professor of Tropical Public Health.

CHIA-TUNG PAN, M.D., M.P.H., Instructor in Tropical Public Health.

REQUIRED COURSE

PARASITOLOGY A. *Second Year*.—The important helminth and protozoan parasites of man are considered with reference to their geographic distribution, identification, mode of transmission, pathogenesis, immune reactions and methods for prevention and control. Clinical aspects and chemotherapy of parasitic diseases are discussed. Emphasis is given to methods of laboratory diagnosis.

SECOND YEAR	HOURS
Lectures, demonstrations, and laboratory work. Dr. WELLER and Staff. H.M.S. Tuesdays, Thursdays, and Saturdays, 10 to 1, December.	30

VOLUNTARY COURSES

Courses offered by the Department of Tropical Public Health in the School of Public Health are open, as electives, to third and fourth year students. Spring term, February–June.

Pharmacology

OTTO KAYER, M.D., A.M. (hon.), Charles Wilder Professor of Pharmacology and Head of the Department.

MEDICAL SCHOOL

- PETER B. DEWS, M.B., Ch.B., Ph.D., Assistant Professor of Pharmacology.
- PAUL B. HAGEN, M.B., Ch.B., Assistant Professor of Pharmacology.
- FREDERICK C. UHLE, Ph.D., Assistant Professor of Chemistry in the Department of Pharmacology.
- FRED N. BRIGGS, Ph.D., Associate in Pharmacology.
- ALEXANDER D. KENNY, Ph.D., Associate in Pharmacology at the Children's Hospital.
- MARTIN LUBIN, M.D., Ph.D., Associate in Pharmacology.
- CHARLES J. KENSLER, Ph.D., Lecturer on Pharmacology (resigned December 31, 1956).
- JOSEPH M. BENFORADO, M.D., Instructor in Pharmacology.
- WERNER E. FLACKE, M.D., Instructor in Pharmacology.
- NORMAN WEINER, M.D., Instructor in Pharmacology.
- DIETER WOLFF, M.D., Assistant in Pharmacology.
- LEWIS ARONOW, Ph.D., Research Fellow in Pharmacology (appointment expired August 31, 1956).
- BRYAN, W. BAKER, Ph.D., Research Fellow in Chemistry in the Department of Pharmacology (resigned September 30, 1956).
- J. TULIO BAYER, M.D., Research Fellow in Pharmacology.
- BRIGITTE HOFHEINZ, A.B., Research Fellow in Pharmacology.
- CHARLES M. McEWEN, JR., A.B., Research Fellow in Pharmacology.
- MATTI K. PAASONEN, M.D., Research Fellow in Pharmacology.
- FREDY R. SALLMANN, Ph.D., Research Fellow in Chemistry in the Department of Pharmacology.
- INGE SCHEUHING, A.B., Research Fellow in Pharmacology.
- CHING YUAN, Ph.D., Research Fellow in Chemistry in the Department of Pharmacology.

Affiliated:

- PAUL L. MUNSON, Ph.D., Associate Professor of Pharmacology in the School of Dental Medicine.

HARVARD UNIVERSITY

- SAMUEL FRIEDMAN, PH.D., Research Associate in Pharmacology in the School of Dental Medicine.
- PASQUALE J. COSTA, PH.D., M.D., Instructor in Pharmacology in the School of Dental Medicine.
- PHILIP HIRSCH, PH.D., Instructor in Pharmacology in the School of Dental Medicine.

REQUIRED COURSE

PHARMACOLOGY A. *Second Year.*—The course in Pharmacology consists of lectures, demonstrations, experimental laboratory exercises and conferences. The students have an opportunity to learn about the fundamental pharmacological and toxicological concepts and to become acquainted with the important drugs. Emphasis is placed on the mode of action of pharmacological agents in such a way as to provide the student with a rational basis for the study of therapeutics with drugs. The analysis of pharmacological effects is based on experimental and clinical facts obtained from studies in man and animals. In the laboratory, stress is laid on observation and interpretation by the student.

SECOND YEAR	HOURS
Lectures. Dr. KRAYER and Associates. <i>One hour, three times a week: Tuesday, Thursday and Saturday mornings, first half-year; Monday, Wednesday and Friday afternoons, second half-year.</i>	84
Laboratory work and conferences. Dr. KRAYER and Associates. <i>Tuesday, Thursday and Saturday mornings, first half-year.</i>	76

FOURTH YEAR ELECTIVE COURSES

20. Pharmacological Investigation. Drs. KRAYER, MUNSON, UHLE, DEWS, LUBIN, BRIGGS and KENNY.
21. Substances affecting the circulatory system. Dr. KRAYER.
22. Substances affecting the autonomic nervous system. Dr. KRAYER.
23. Regulation of Hormone Secretion; biological assay. Dr. MUNSON.
24. Structural and synthetic studies of steroid and indole alkaloids. Dr. UHLE.

MEDICAL SCHOOL

25. Effects of drugs on behavior in experimental animals. Dr. DEWS.
26. Activation of smooth and skeletal muscle. Dr. LUBIN.
27. Pharmacology of muscular contraction. Dr. BRIGGS.
28. Cancer chemotherapy. Dr. KENNY.

Legal Medicine

RICHARD FORD, M.D., Assistant Professor of Legal Medicine and Acting Head of the Department.

MICHAEL A. LUONGO, M.D., Associate in Legal Medicine.

WILLIAM J. CURRAN, LL.M., Lecturer on Law in the Department of Legal Medicine.

GEORGE G. KATSAS, M.D., Research Associate in Legal Medicine.

ELVERA J. ALGERI, S.B., Assistant in Legal Medicine.

ARTHUR J. MCBAY, PH.D., Assistant in Legal Medicine.

ARTHUR E. O'DEA, M.D., Assistant in Legal Medicine.

FRANK C. STRATTON, S.B., Assistant in Legal Medicine.

LOLA M. WALKER, A.M., Assistant in Legal Medicine.

LUIS E. GONZALEZ, M.D., Research Fellow in Legal Medicine.

SONGCHAT TOSAYANONDA, M.D., Research Fellow in Legal Medicine.

JOSEPH A. JACHIMCZYK, M.D., Teaching Fellow in Legal Medicine.

Affiliated:

JACK R. EWALT, M.D., Clinical Professor of Psychiatry.

REQUIRED COURSE

Third Year.—Twelve lectures. The circumstances in which medical evidence is essential to the administration of justice. Mechanisms and pathological characteristics of injuries most frequently responsible for litigation. Laws and legal principles relating to the practice of medicine and to the physician-patient relationship.

THIRD YEAR	HOURS
Lectures. Dr. FORD and Associates. H.M.S. <i>Twelve Fridays of the first half-year, at 4.15 P.M.</i>	12

MEDICINE

WALTER BAUER, M.D., A.M. (hon.), Jackson Professor of Clinical Medicine and Head of the Department at the Massachusetts General Hospital. (On leave of absence August 15, 1956 through November 15, 1956.)

HERRMAN L. BLUMGART, M.D., Professor of Medicine and Head of the Department at the Beth Israel Hospital.

WILLIAM B. CASTLE, M.D., S.M. (hon.), M.D. (hon.), S.D. (hon.), Professor of Medicine and Head of the Department at the Boston City Hospital.

GEORGE W. THORN, M.D., LL.D., S.D. (hon.), Hersey Professor of the Theory and Practice of Physic and Head of the Department at the Peter Bent Brigham Hospital.

PAUL C. ZAMECNIK, M.D., Collis P. Huntington Professor of Oncologic Medicine and Director of the J. Collins Warren Laboratories of the Huntington Memorial Hospital and Chairman of the Executive Committee of the Departments of Medicine.

C. SIDNEY BURWELL, M.D., LL.D., S.D. (hon.), Samuel A. Levine Professor of Medicine (on leave of absence August 24, 1956 through November 18, 1956).

CHESTER M. JONES, M.D., S.D. (hon.), Clinical Professor of Medicine.

SAMUEL A. LEVINE, M.D., Clinical Professor of Medicine.

FULLER ALBRIGHT, M.D., S.D. (hon.), Associate Professor of Medicine.

BENJAMIN ALEXANDER, M.D., Associate Professor of Medicine at the Beth Israel Hospital.

EDWARD F. BLAND, M.D., Associate Clinical Professor of Medicine.

CHARLES S. DAVIDSON, M.D., C.M., Associate Professor of Medicine.

LAURENCE B. ELLIS, M.D., Associate Clinical Professor of Medicine.

MEDICAL SCHOOL

MAXWELL FINLAND, M.D., Associate Professor of Medicine.

THOMAS A. WARTHIN, M.D., Associate Clinical Professor of Medicine.

MARK D. ALTSCHULE, M.D., Assistant Clinical Professor of Medicine.

THEODORE L. BADGER, M.D., Assistant Clinical Professor of Medicine.

EARLE M. CHAPMAN, M.D., Assistant Clinical Professor of Medicine.

HARRY A. DEROW, M.D., Assistant Clinical Professor of Medicine.

LEWIS DEXTER, M.D., Assistant Professor of Medicine and Tutor in Medicine.

KENDALL EMERSON, JR., M.D., Assistant Clinical Professor of Medicine and Assistant Dean of the Faculty of Medicine.

EUGENE C. EPPINGER, M.D., Assistant Clinical Professor of Medicine and Assistant Dean of the Faculty of Medicine in charge of courses for graduates.

A. STONE FREEDBERG, M.D., Assistant Professor of Medicine.

FRANK H. GARDNER, M.D., Assistant Professor of Medicine.

SAMUEL L. GARGILL, M.D., Assistant Clinical Professor of Medicine.

SEYMOUR J. GRAY, M.D., PH.D., Assistant Clinical Professor of Medicine.

DAVID HURWITZ, M.D., Assistant Clinical Professor of Medicine.

EDWARD H. KASS, PH.D., M.D., Assistant Professor of Medicine.

ALEXANDER LEAF, M.D., Assistant Professor of Medicine at the Massachusetts General Hospital.

ALEXANDER MARBLE, M.D., Assistant Clinical Professor of Medicine.

JOHN P. MERRILL, M.D., Assistant Professor of Medicine (on leave of absence November 1, 1956 through June 30, 1957).

ROBERT S. PALMER, M.D., Assistant Clinical Professor of Medicine.

JOSEPH E. F. RISEMAN, M.D., Assistant Clinical Professor of Medicine.

HARVARD UNIVERSITY

- MARIAN W. ROPES, M.D., Assistant Clinical Professor of Medicine.
JOHN B. STANBURY, M.D., Assistant Professor of Medicine.
RICHARD P. STETSON, M.D., Assistant Clinical Professor of Medicine.
BERT L. VALLEE, M.D., Assistant Professor of Medicine.
ARTHUR L. WATKINS, M.D., Assistant Clinical Professor of Medicine.
LOUIS WOLFF, M.D., Assistant Clinical Professor of Medicine.
PAUL M. ZOLL, M.D., Assistant Professor of Medicine.
WILLIAM P. MURPHY, M.D., Lecturer on Medicine.
HOWARD F. ROOT, M.D., Lecturer on Medicine.
HOWARD B. SPRAGUE, M.D., Lecturer on Medicine.
WALTER H. ABELMANN, M.D., Associate in Medicine.
C. CABELL BAILEY, M.D., Clinical Associate in Medicine.
MYLES P. BAKER, M.D., Clinical Associate in Medicine.
BENJAMIN M. BANKS, M.D., Clinical Associate in Medicine.
THEODORE B. BAYLES, M.D., Clinical Associate in Medicine.
SAMUEL B. BEASER, M.D., Clinical Associate in Medicine.
ROBERT L. BERG, M.D., Associate in Medicine at the Massachusetts General Hospital.
FREDERICK S. BIGELOW, M.D., Associate in Medicine.
RICHARD A. BLOOMFIELD, M.D., Clinical Associate in Medicine.
NANCY L. R. BUCHER, M.D., Associate in Medicine at the Massachusetts General Hospital.
EVAN CALKINS, M.D., Associate in Medicine.
THOMAS C. CHALMERS, M.D., Clinical Associate in Medicine.
SIDNEY COHEN, M.D., Associate in Medicine at the Beth Israel Hospital.
PERRY J. CULVER, M.D., Associate in Medicine at the Massachusetts General Hospital.
CLIFFORD L. DERICK, M.D., C.M., Clinical Associate in Medicine.
CHARLES H. DU TOIT, M.D., Associate in Medicine at the Massachusetts General Hospital.
ALLAN J. ERSLEV, M.D., Clinical Associate in Medicine.
GREENE S. FITZHUGH, M.D., Clinical Associate in Medicine.
PAUL FREMONT-SMITH, M.D., Clinical Associate in Medicine.

MEDICAL SCHOOL

DALE G. FRIEND, M.D., Associate in Medicine at the Peter Bent Brigham Hospital.

ROBERT GOLDSTEIN, M.D., Clinical Associate in Medicine.

WALTER T. GOODALE, M.D., Clinical Associate in Medicine.

JEROME GROSS, M.D., Associate in Medicine at the Massachusetts General Hospital.

MILTON W. HAMOLSKY, M.D., Associate in Medicine.

SIDNEY H. INGBAR, M.D., Associate in Medicine.

ALFRED KRANES, M.D., Clinical Associate in Medicine.

GEORGE S. KURLAND, M.D., Associate in Medicine at the Beth Israel Hospital:

JACOB LERMAN, M.D., Clinical Associate in Medicine.

HAROLD D. LEVINE, M.D., Clinical Associate in Medicine.

ARTHUR J. LINENTHAL, M.D., Clinical Associate in Medicine.

DAVID LITTMANN, M.D., Clinical Associate in Medicine.

F. WILLIAM MARLOW, JR., M.D., Clinical Associate in Medicine.

DUDLEY MERRILL, M.D., Clinical Associate in Medicine.

JAMES METCALFE, M.D., Associate in Medicine.

ROBERT T. MONROE, M.D., Clinical Associate in Medicine.

GORDON S. MYERS, M.D., Associate in Medicine at the Massachusetts General Hospital.

GEORGE NICHOLS, JR., M.D., Associate in Medicine.

HELEN S. PITTMAN, M.D., Clinical Associate in Medicine.

ALBERT E. RENOLD, M.D., Associate in Medicine.

ALBERT O. SEEGER, M.D., Clinical Associate in Medicine.

F. H. LASKEY TAYLOR, PH.D., Associate in Research Medicine.

JAMES L. TULLIS, M.D., Clinical Associate in Medicine.

ROE E. WELLS, M.D., Clinical Associate in Medicine.

STANFORD WESSLER, M.D., Associate in Medicine.

LOUIS ZETZEL, M.D., Clinical Associate in Medicine.

KNUT A. AAS, M.D., Visiting Lecturer on Medicine (appointment expired September 30, 1956).

WALTER S. BURRAGE, M.D., Lecturer on Medicine.

CLARK W. HEATH, M.D., Lecturer on Medicine.

SEUNG H. KANG, M.D., Visiting Lecturer on Medicine (appointment expired August 31, 1956).

HARVARD UNIVERSITY

MAURICE B. STRAUSS, M.D., Lecturer on Medicine.

ROBERT J. P. WILLIAMS, PH.D., Visiting Lecturer on Medicine
(appointment expired September 30, 1956).

SAUL ARONOW, PH.D., Research Associate in Medicine.

GORDON L. BROWNELL, PH.D., Research Associate in Medicine.

WILLIAM P. CHAPMAN, M.D., C.M., Research Associate in Medicine.

ANDREW EYQUEM, M.D., Research Associate in Medicine.

JOSEPH W. GARDELLA, M.D., Research Associate in Medicine and
Assistant Dean for Student Affairs of the Faculty of Medicine.

JOHN GERGELY, M.D., PH.D., Research Associate in Medicine.

LIPPMAN H. GERONIMUS, PH.D., Research Associate in Medicine.

JOHN G. GIBSON, 2D, M.D., Research Associate in Medicine.

FLORENCE W. HAYNES, PH.D., Research Associate in Medicine.

MAHLON B. HOAGLAND, M.D., Research Associate in Medicine.

FREDERIC L. HOCH, M.D., Research Associate in Medicine.

ELIZABETH B. KELLER, PH.D., Research Associate in Medicine.

MITSUKO T. LAFORET, M.D., Milton Research Associate in Medicine.

SIDNEY LESKOWITZ, PH.D., Research Associate in Bacteriology
and Immunology in the Department of Medicine.

JOHN W. LITTLEFIELD, M.D., Research Associate in Medicine (on
leave of absence January 1, 1957 through June 30, 1957).

ROBERT B. LOFTFIELD, PH.D., Research Associate in Medicine.

ALDEN V. LOUD, PH.D., Research Associate in Medicine.

SAUL MALKIEL, PH.D., Research Associate in Medicine.

MARVIN MARGOSHES, PH.D., Research Associate in Medicine.

JOSIP MATOVINOVIC, M.D., Research Associate in Medicine.

BENJAMIN J. MURAWSKI, PH.D., Research Associate in Psychology.

LEONA R. NORMAN, M.D., Research Associate in Medicine.

JEANETTE C. OPSAHL, PH.D., M.D., Research Associate in Medicine.

MAURICE M. PECHET, PH.D., M.D., Research Associate in Medicine.

JOHN C. POND, M.D., Research Associate in Medicine.

CARL A. PRICE, PH.D., Milton Research Associate in Medicine.

MEDICAL SCHOOL

- ERIC J. ROSS, M.B., CH.B., PH.D., Research Associate in Medicine.
GRACE M. ROURKE, S.M., Research Associate in Medicine.
KARL SCHMID, PH.D., Research Associate in Medicine.
JOHN T. SHARP, M.D., Research Associate in Medicine.
MORRIS SOODAK, PH.D., Research Associate in Medicine.
LEONARD B. SPECTOR, PH.D., Research Associate in Medicine.
PIERRE J. STOFFYN, PH.D., Research Associate in Medicine.
RALPH E. THIERS, PH.D., Research Associate in Medicine.
GEORGE E. ALTMAN, M.D., Instructor in Medicine.
WILLIAM H. BAKER, M.D., Instructor in Medicine.
VICTOR G. BALBONI, M.D., Instructor in Medicine.
WILLIAM H. BATCHELOR, M.D., Instructor in Medicine.
PATRICIA H. BENEDICT, M.D., Instructor in Medicine.
JOHN A. BENSON, JR., M.D., Instructor in Medicine.
KENNETH T. BIRD, M.D., Instructor in Medicine.
MORTON G. BROWN, M.D., Instructor in Medicine.
ROBERT E. BROWNLEE, M.D., Instructor in Medicine.
ROBERT BUKA, JR., M.D., Instructor in Medicine.
MILTON H. CLIFFORD, M.D., Instructor in Medicine.
ANDREW W. CONTRATTO, M.D., Instructor in Medicine.
AUGUSTUS T. CROCKER, M.D., Instructor in Medicine.
SETH C. CROCKER, M.D., Instructor in Medicine.
LEONARD W. CRONKHITE, JR., M.D., Instructor in Medicine.
WILLARD DALRYMPLE, M.D., Instructor in Medicine.
BRIANT L. DECKER, M.D., Instructor in Medicine.
ALBERT I. C. DEFRIEZ, M.D., Instructor in Medicine.
ELLIS DRESNER, M.D., Instructor in Medicine.
DANIEL S. ELLIS, M.D., Instructor in Medicine.
RICHARD A. FIELD, M.D., Instructor in Medicine.
JOHN M. FLYNN, M.D., Instructor in Medicine (died December
11, 1956).
ANNE P. FORBES, M.D., Instructor in Medicine.
NORBERT FREINKEL, M.D., Instructor in Medicine.
JOHN G. FREYMAN, M.D., Instructor in Medicine.
ALLAN L. FRIEDLICH, JR., M.D., Instructor in Medicine.
RICHARD GORLIN, M.D., Instructor in Medicine.

HARVARD UNIVERSITY

JOHN R. GRAHAM, M.D., Instructor in Medicine.
MORTIMER S. GREENBERG, M.D., Instructor in Medicine.
WARREN R. GUILD, M.D., Instructor in Medicine.
REED HARWOOD, M.D., Instructor in Medicine.
PHILIP H. HENNEMAN, M.D., Instructor in Medicine.
HOWARD H. HIATT, M.D., Instructor in Medicine.
ROBERT B. HOLDEN, M.D., Instructor in Medicine.
KURT J. ISSELBACHER, M.D., Instructor in Medicine.
JAMES H. JACKSON, M.D., Instructor in Medicine.
BERNARD M. JACOBSON, M.D., Instructor in Medicine.
JAMES H. JANDL, M.D., Instructor in Medicine.
RITA M. KELLEY, M.P.H., M.D., Instructor in Medicine.
STANLEY KIMBALL, M.D., Instructor in Medicine.
RUDOLF KURZMANN, M.D., Instructor in Medicine.
MARK F. LESSES, M.D., Instructor in Medicine.
INGA E. LINDGREN, M.D., Instructor in Medicine.
ARTHUR J. LOCKHART, M.D., Instructor in Medicine.
GEORGE W. LYNCH, M.D., Instructor in Medicine.
JAMES S. MANSFIELD, M.D., Instructor in Medicine.
JANET W. McARTHUR, M.D., Instructor in Medicine.
L. TILLMAN McDANIEL, M.D., Instructor in Medicine.
JOSEPH M. MILLER, M.D., Instructor in Medicine.
HYMAN L. NATERMAN, M.D., Instructor in Medicine.
SOLOMON PAPPER, M.D., Instructor in Medicine.
CAREY M. PETERS, M.D., Instructor in Medicine.
ARTHUR S. PIER, JR., M.D., Instructor in Medicine.
GEORGE M. PIKE, M.D., Instructor in Medicine.
CURTIS PROUT, M.D., Instructor in Medicine.
EUGENE D. ROBIN, M.D., Instructor in Medicine.
ELLIOT L. SAGALL, M.D., Instructor in Medicine.
GORDON A. SAUNDERS, M.D., Instructor in Medicine.
HERBERT A. SELENKOW, M.D., Instructor in Medicine.
NORMAN J. SELVERSTONE, M.D., Instructor in Medicine.
CHARLES L. SHORT, M.D., Instructor in Medicine.
WILLIAM J. SHRIBER, M.D., Instructor in Medicine.
WILLIAM D. SOHIER, JR., M.D., Instructor in Medicine.

MEDICAL SCHOOL

- SAMUEL STEARNS, M.D., Instructor in Medicine.
HAROLD J. STEIN, M.D., Instructor in Medicine.
J. SYDNEY STILLMAN, JR., M.D., Instructor in Medicine.
JOHN D. STOECKLE, M.D., Instructor in Medicine.
GEORGE P. STURGIS, M.D., Instructor in Medicine.
MELVIN I. STURNICK, M.D., Instructor in Medicine.
MORTON N. SWARTZ, M.D., Instructor in Medicine.
ROBERT H. TALKOV, M.D., Instructor in Medicine.
PHILIP TROEN, M.D., Instructor in Medicine.
DONALD A. TUCKER, M.D., Instructor in Medicine.
JOHN C. WELLS, JR., M.D., Instructor in Medicine.
OLGA S. WERMER, M.D., Instructor in Medicine.
EDWIN O. WHEELER, M.D., Instructor in Medicine.
CONGER WILLIAMS, M.D., Instructor in Medicine.
BERTRAM M. WINER, M.D., Instructor in Medicine.
NORMAN ZAMCHECK, M.D., Instructor in Medicine.
JOHN W. ZELLER, M.D., Instructor in Medicine.
EDGAR D. BELL, JR., M.D., Assistant in Medicine.
PAUL G. BINETTE, PH.B., Assistant in Medicine.
WILLIAM H. BIRCHARD, M.D., Assistant in Medicine.
GEORGE H. BLENNERHASSETT, M.B., CH.B., Assistant in Medicine.
JAMES R. BROWNING, M.D., Assistant in Medicine.
EDMUND J. CALLAHAN, 3RD., M.D., Assistant in Medicine.
WALTER H. CASKEY, M.D., Assistant in Medicine.
GILBERT R. CHERRICK, M.D., Assistant in Medicine.
ROBERT E. CLANCY, M.D., Assistant in Medicine.
JAMES F. CUMMINS, M.D., Assistant in Medicine.
ROBERT P. DAVIS, M.D., Assistant in Medicine.
THOMAS R. DAWBER, M.D., Assistant in Medicine.
FRANCIS P. DAWSON, M.D., M.P.H., Assistant in Medicine.
JAMES T. DOWLING, M.D., Assistant in Medicine.
MARJORIE F. ELICOTT, M.D., Assistant in Medicine.
HELEN W. EVARTS, M.D., Assistant in Medicine.
JAMES J. FEENEY, M.D., Assistant in Medicine.
GERALD S. FOSTER, M.D., Assistant in Medicine.
JOEL C. GOLDTHWAIT, M.D., Assistant in Medicine.

HARVARD UNIVERSITY

- EDWIN E. GORDON, M.D., Assistant in Medicine.
KENNETH M. GRAHAM, M.D., Assistant in Medicine.
JOSEPH S. GRYBOSKI, M.D., Assistant in Medicine.
THOMAS C. HALL, M.D., Assistant in Medicine.
ERNEST W. HANCOCK, M.D., Assistant in Medicine.
ROGER B. HICKLER, M.D., Assistant in Medicine.
ERWIN O. HIRSCH, M.D., Assistant in Medicine.
HENRY W. JONES, JR., M.D., Assistant in Medicine.
WILFRED F. JONES, JR., M.D., Assistant in Medicine.
JOHN W. KELLER, M.D., Assistant in Medicine.
STEPHEN M. KRANE, M.D., Assistant in Medicine.
BERNARD LOWN, M.D., Assistant in Medicine.
FARAHE MALOOF, M.D., Assistant in Medicine.
AVARD M. MITCHELL, PH.D., M.D., Assistant in Medicine.
ROBERT S. MORRISON, M.D., Assistant in Medicine.
JOHN F. OTTO, JR., M.D., Assistant in Medicine.
DAVID PAINE, M.D., Assistant in Medicine.
WALTER W. POINT, 3RD., M.D., Assistant in Medicine.
EDWARD S. RENDALL, M.D., Assistant in Medicine.
WILLIAM A. RICHARDS, M.D., Assistant in Medicine.
WALTER T. ST. GOAR, M.D., Assistant in Medicine.
RICHARD P. SCHERMAN, M.D., Assistant in Medicine.
JOHN SCHULMAN, JR., M.D., Assistant in Medicine.
SHELDON G. SHEPS, M.D., Assistant in Medicine.
LLOYD H. SMITH, JR., M.D., Assistant in Medicine.
NORMAN S. STEARNS, M.D., Assistant in Medicine.
WILLIAM H. STIMSON, M.D., Assistant in Medicine.
JOSEPH L. TANSEY, M.D., Assistant in Medicine.
JOHN M. TYLER, M.D., Assistant in Medicine.
BERNARD D. WIEGAND, M.D., Assistant in Medicine.
BRYAN WILLIAMS, JR., M.D., Assistant in Medicine (resigned October 15, 1956).
RICHARD WOLFF, M.D., Assistant in Medicine.
STANLEY J. ADELSTEIN, M.D., Research Fellow in Medicine.
ALAN C. AISENBERG, M.D., PH.D., Research Fellow in Medicine
MARY DAY ALBERT, PH.D., Research Fellow in Medicine.

MEDICAL SCHOOL

JOHN ANDERSON, M.B.,CH.B., Research Fellow in Medicine.

HARVEY L. ATIN, M.D., Myer Dana and Ella Dana Research Fellow in Medicine.

PETER R. BALLY, M.D., Research Fellow in Medicine (appointment expired January 31, 1957).

WILLIAM L. BENCZE, PH.D., Research Fellow in Medicine (appointment expired September 30, 1956).

JOHN F. BERTLES, M.D., Research Fellow in Medicine.

JOHN E. BETHUNE, M.D.,C.M., Research Fellow in Medicine.

JOHN R. BLAKE, JR., M.D., Research Fellow in Medicine.

BURIS R. BOSHELL, M.D., Research Fellow in Medicine.

NANCY G. BOUCOT, M.D., Research Fellow in Medicine.

JOHN M. BOZER, M.D., Research Fellow in Medicine.

CURTLAND C. BROWN, JR., M.D., Research Fellow in Medicine.

JESUS BUSTOS, M.D., Research Fellow in Medicine.

JOHN B. CADIGAN, JR., M.D., Research Fellow in Medicine.

DALLAS V. CLATANOFF, M.D., Research Fellow in Medicine.

ALAN S. COHEN, M.D., Research Fellow in Medicine.

PHIN COHEN, M.D., Research Fellow in Medicine.

BERNARD A. COOPER, M.D.,C.M., Research Fellow in Medicine.

ROBERT W. CORNETT, M.D.,C.M., Research Fellow in Medicine.

JEAN CRABBE, M.D., Research Fellow in Medicine.

LOUIS C. CRAIG, M.D., Research Fellow in Medicine.

CHARLES H. CRUMP, M.D., Research Fellow in Medicine.

JOHN L. DECKER, M.D., Research Fellow in Medicine.

MARGARIDA N. DE MAGALHAES, M.D., Research Fellow in Medicine.

RENE H. DESPOINTES, M.D., PH.D., Research Fellow in Medicine.

CARLOS R. DUNCAN, M.D., Research Fellow in Medicine.

HATICE EKREN, M.D., Research Fellow in Medicine (on leave of absence from January 1, through June 30, 1957).

BERNHARD FAST, M.D., Research Fellow in Medicine.

JEAN-PIERRE FELBER, M.D., Research Fellow in Medicine.

JOHN H. FESSLER, PH.D., Research Fellow in Medicine.

RODMAN B. FINKBINER, M.D., Research Fellow in Medicine.

ERNST R. FROESCH, M.D., Research Fellow in Medicine.

KEIICHIRO FUWA, PH.D., Research Fellow in Medicine.

HARVARD UNIVERSITY

ALAN GOLDFIEN, M.D., Research Fellow in Medicine (appointment expired August 31, 1956).

SEN-ITIRO HAKOMORI, M.D., Research Fellow in Medicine.

JAMES T. HAMLIN, 3RD., M.D., Research Fellow in Medicine and Henry A. and Camillus Christian Fellow in Medicine.

MONTO HO, M.D., Research Fellow in Medicine.

JOSEPH J. HOET, M.D., Research Fellow in Medicine (resigned September 14, 1956).

GABRIEL ISAAC, M.D., Research Fellow in Medicine.

ROBERT H. JONES, M.D., Research Fellow in Medicine.

RICHARD A. JOSKE, M.D., Research Fellow in Medicine.

JEREMIAS H. R. KAEGI, M.D., Research Fellow in Medicine.

JAY H. KATZ, M.D., Research Fellow in Medicine.

LINDY F. KUMAGAI, M.D., Research Fellow in Medicine.

BROR-AXEL LAMBERG, M.B.,CH.B., Research Fellow in Medicine (appointment expires March 31, 1957).

ANDRE LANTHIER, M.D., Research Fellow in Medicine.

CHARLES I. LEVENE, M.D., Research Fellow in Medicine.

HOWARD LEVITIN, M.D., Research Fellow in Medicine (resigned September 15, 1956).

JOSEPH E. MACKIE, M.D., Research Fellow in Medicine.

WILLIAM M. MADISON, JR., M.D., Research Fellow in Medicine.

JORGE MANIQUE, M.D., Research Fellow in Medicine.

PAOLA I. MARCHI, M.D., Research Fellow in Medicine.

DONALD B. MARTIN, M.D., Research Fellow in Medicine.

GEORGE MARTZ, M.D., Research Fellow in Medicine.

EDWIN P. MAYNARD, 3RD., M.D., Research Fellow in Medicine.

THOMAS J. McMANUS, M.D., Research Fellow in Medicine.

ROGER A. MELICK, M.B.,CH.B., Research Fellow in Medicine (appointment expired December 31, 1956).

MARC P. MOLDAWER, M.D., Research Fellow in Medicine.

ALLAN U. MUNCK, PH.D., Research Fellow in Medicine.

DAVID B. MURRAY, M.B.,CH.B., Research Fellow in Medicine.

RENEE G. NAVES, DR.-ÈS-SCIENCE, Research Fellow in Medicine (resigned December 15, 1956).

MEDICAL SCHOOL

- ROGER L. NICHOLS, M.D., Research Fellow in Medicine (resigned November 19, 1956).
- ROBERT L. NIELSEN, M.D., Research Fellow in Medicine (appointment expired September 16, 1956).
- HENDRIK O. NIEWEG, M.D., Research Fellow in Medicine (appointment expired August 31, 1956).
- PAUL NOVACK, M.D., Research Fellow in Medicine.
- THOMAS E. OLSON, M.D., Research Fellow in Medicine.
- ERNEST PAGE, M.D., Research Fellow in Medicine.
- LOT B. PAGE, M.D., Research Fellow in Medicine.
- ARTHUR O. PHINNEY, JR., M.D., Research Fellow in Medicine.
- L. PAUL PICHETTE, M.D., Research Fellow in Medicine (resigned December 31, 1956).
- SHOLEM POSTEL, M.D., Research Fellow in Medicine.
- MUNRO H. PROCTOR, M.D., Research Fellow in Medicine.
- HUGH M. PYLE, M.D., Research Fellow in Medicine.
- COLIN G. RAMSEY, M.D., Research Fellow in Medicine (resigned September 21, 1956).
- SEARLE B. REES, M.D., Research Fellow in Medicine.
- FRITZ W. REUTTER, M.D., Research Fellow in Medicine.
- EGON RISS, M.D., Research Fellow in Medicine.
- ALFONSO V. RIVERA, M.D., Research Fellow in Medicine.
- KENNETH J. RYAN, M.D., Research Fellow in Medicine (appointment expired August 31, 1956).
- ROBERT C. SCHLANT, M.D., Research Fellow in Medicine.
- MUNIR H. SHAMM'A, M.D., Research Fellow in Medicine.
- MARY L. STEPHENSON, PH.D., Research Fellow in Medicine.
- JAMES M. STORMONT, M.D., Research Fellow in Medicine.
- WILLIAM H. J. SUMMERSKILL, M.B., CH.B., Research Fellow in Medicine (appointment expired September 30, 1956).
- ZOFIA TARASIEJSKA, PH.D., Research Fellow in Medicine.
- RAYMOND J. TIMMERMAN, M.D., Research Fellow in Medicine.
- DAVID M. TRAVIS, M.D., Research Fellow in Medicine.
- JOHN B. VANDER, M.D., M.P.H., Research Fellow in Medicine.
- WALTER VAN'T HOFF, M.B., CH.B., Research Fellow in Medicine.
- WARREN E. C. WACKER, M.D., Research Fellow in Medicine.

HARVARD UNIVERSITY

DONALD F. H. WALLACH, M.D., Research Fellow in Medicine.
STANLEY WALLACH, M.D., Milton Research Fellow in Medicine.
JOHN R. WARD, M.D., Research Fellow in Medicine.
JOSEPH O. WEHRMULLER, PH.D., Research Fellow in Medicine.
ROBERT D. WHALEY, M.D., Research Fellow in Medicine (resigned January 5, 1957).
CHARLES E. WILDER, M.D., Research Fellow in Medicine.
ERICH E. WINDHAGER, M.D., Research Fellow in Medicine.
ALBERT I. WINEGRAD, M.D., Research Fellow in Medicine.
STANLEY J. WOLFE, M.D., Research Fellow in Medicine.
JOHN V.W. YOUNG, M.D., Research Fellow in Medicine.
MOHSEN ZIAI, M.D., Research Fellow in Medicine.
MEHMET S. ZILELI, M.D., Research Fellow in Medicine.
BEVERLY W. COBBS, JR., M.D., Teaching Fellow in Medicine.
ALFREDO A. DEA. RAMIREZ, M.D., Teaching Fellow in Medicine.
JOSEPH C. SHIPP, M.D., Teaching Fellow in Medicine.
DAVID H. SPODICK, M.D., Teaching Fellow in Medicine.

Affiliated:

NEIL L. CRONE, M.D., Professor of Business Administration and Director of the Business School Health Service.
DANA L. FARNSWORTH, M.D., Henry K. Oliver Professor of Hygiene and Director of University Health Services.
LEWIS L. ENGEL, PH.D., Assistant Professor of Biological Chemistry at the Massachusetts General Hospital.
THEODORE B. VAN ITALLIE, M.D., Assistant Professor of Clinical Nutrition, S.P.H.
HARRIET L. HARDY, M.D., Assistant Clinical Professor of Preventive Medicine.
BENEDICT F. MASSELL, M.D., Assistant Clinical Professor of Pediatrics.
PHILIP SOLOMON, M.D., Assistant Clinical Professor of Psychiatry.
EDWARD A. GAENSLER, M.D., Clinical Associate in Surgery.
JOSEPH STOKES, 3D, M.D., Associate in Preventive Medicine.
EDGAR B. TAFT, M.D., Associate in Pathology at the Massachusetts General Hospital.

MEDICAL SCHOOL

ROGER W. JEANLOZ, PH.D., Research Associate in Biological Chemistry.

BENJAMIN J. MURAWSKI, PH.D., Research Associate in Psychology.

BILLY BAGGETT, PH.D., Instructor in Biological Chemistry.

JOHN R. GOLDSMITH, M.D., Research Fellow in Preventive Medicine.

REQUIRED COURSES

The instruction given by the Department of Medicine consists in lectures, recitations, amphitheatre clinics, practical work in the outpatient departments and wards of the hospitals, and a course in laboratory diagnosis which is given at the Harvard Medical School in the laboratory of the Department. Throughout, an effort is made to correlate the clinical aspects of patients with fundamental principles derived from the basic sciences and to establish in the student's mind the importance of care and precision in diagnostic and therapeutic methods. The time given to the Department of Medicine begins in the second half of the second year and continues throughout the third and fourth years of the medical curriculum.

MEDICINE A. *Second Year.*—During the second half of the second year introductory aspects of internal medicine are covered in a correlated program of lectures and demonstrations in the courses in physical diagnosis and laboratory diagnosis. The application of the subject matter of preclinical courses to clinical medicine is emphasized. For their practical instruction in the methods of history taking, physical examination, and laboratory technique the students are divided into small groups.

MEDICINE B. *Third Year.*—Throughout the third year the subjects of internal medicine are covered by clinics or lectures for the whole class, which are given at the various hospitals or at the Harvard Medical School. For their practical instruction the students are divided into small groups and work in the medical wards or outpatient departments of the four larger hospitals connected with the Medical School. On Monday and Wednesday afternoons the third of the class assigned to Medicine attends amphitheatre clinics, clinical-pathological conferences, and X-ray conferences in rotation at the various hospitals. One week of the course is spent at the Middlesex

HARVARD UNIVERSITY

County Sanatorium for special instruction in tuberculosis and other chest diseases.

MEDICINE C. *Fourth Year.*—In this year for two or three months the students serve mainly as clinical clerks in the medical wards of a general hospital. Part of their time, however, is devoted to acting as assistants in the medical clinic of the out-patient department. Especial emphasis is placed upon the care of the patient as an individual with respect to diagnosis and treatment. With individual variations in the different hospitals, conferences are held for the informal discussion of clinical, pathological, immunological, radiological, social or dietetic problems of selected cases.

ELECTIVE AND VOLUNTARY COURSES

In addition to the required courses for fourth year students the department offers several opportunities for specially qualified students to take advanced elective courses and to carry on research problems in internal medicine.

FACILITIES FOR INSTRUCTION

The instruction is given at the Harvard Medical School, the Massachusetts General Hospital, the Boston City Hospital, the Peter Bent Brigham Hospital, the Beth Israel Hospital and several other hospitals devoted to special purposes. In these hospitals abundant and varied clinical material is available for the conduct of the numerous exercises.

SECOND YEAR	HOURS
Lectures and demonstrations on physical diagnosis and introductory aspects of clinical medicine. Dr. CHAPMAN and Associates. <i>Four times a week, second half-year.</i>	64
Section teaching in physical diagnosis and history taking. Dr. CHAPMAN and Associates. M.G.H., B.C.H., P.B.B.H., B.I.H., B.L.I.H., C.M.C., H.G.S., and L.I.H. <i>Each student has twenty-four exercises.</i>	84
Lectures and practical exercises in laboratory diagnosis. Dr. BIGELOW and Associates. H.M.S. <i>Three times a week, second half-year.</i>	96

MEDICAL SCHOOL

THIRD YEAR

HOURS

Lectures, recitations, and clinics on selected topics in internal medicine. Drs. BAUER, BLUMGART, CASTLE, THORN, ZAMECNIK and Associates. <i>Throughout the year.</i>	64
Exercises in sections in the wards and out-patient departments at the M.G.H., B.C.H., P.B.B.H., and B.I.H. <i>Each section has thirty-two exercises of two and a half hours each and twenty-one exercises of three hours each.</i>	143

FOURTH YEAR

Clinical Clerkships at M.G.H. (Medicine C ₁ , Dr. BAUER, and Associates); B.C.H. (Medicine C ₂ , Drs. CASTLE, DAVIDSON, and Associates); P.B.B.H. (Medicine C ₃ , Dr. THORN and Associates); B.I.H. (Medicine C ₄ , Dr. BLUMGART and Associates).	288
---	-----

FOURTH YEAR ELECTIVE COURSES

5. Advanced Medicine. Drs. BAUER, ALBRIGHT, BLAND, JACOBSON, JONES, STANBURY and Associates. M.G.H.
6. Advanced Medicine. Drs. CASTLE, BADGER, DAVIDSON, ELLIS, FINLAND, and Associates. B.C.H.
7. Advanced Medicine. Drs. THORN, BURWELL, GRAY, MERRILL, VALLEE and Associates. P.B.B.H.
8. Advanced Medicine. Drs. BLUMGART, ALEXANDER, FREEDBERG and Associates. B.I.H.
9. Diabetes. Dr. Root and Associates. N.E.D.H.
10. Neoplastic Disease. Drs. ZAMECNIK, CASTLEMAN, CHURCHILL, ROBBINS and Associates. M.G.H.
11. Physical Medicine and Rehabilitation. Dr. WATKINS. M.G.H.
12. Diseases of the Lungs. Dr. BADGER and Associates. M.G.H., B.C.H., P.B.B.H. and C.M.C.
13. Research Medicine. Drs. BAUER, STANBURY and Associates. M.G.H.
14. Advanced Medicine. Drs. WARTHIN, LITTMAN and Associates. W.R.V.A.H.

HARVARD UNIVERSITY

15. Comprehensive Medical Care. Dr. FARNSWORTH and Associates of Harvard University Health Services. Harvard Hygiene Department.

VOLUNTARY COURSES

31. Clinics on Diseases of the Digestive System. Drs. BANKS and ZETZEL. Thursdays, 2 to 4 p.m., February and March, B.I.H. Open to third year students.
34. Diseases of the Thyroid. Drs. GARGILL, LESSES and HAMOLSKY. Tuesdays and Thursdays, 3.30 to 5.00 p.m., January, B.I.H. Open to third year students.
36. Hypertensive Disease and Nephritis. Drs. DEROW and WINER. Tuesdays, 2.00 to 3.30 p.m., December and January, B.I.H. Open to third year students.
37. Diagnosis and Treatment of Heart Diseases. Drs. RISEMAN, WESSLER, ALTSCHULE and SAGALL. Tuesdays, 2 to 4 p.m., February and March, B.I.H. Open to second, third and fourth year students.
39. Diagnosis and Treatment of Diabetes Mellitus. Drs. BEASER and STEARNS. Thursdays, 2.00 to 3.30 p.m., October and November, B.I.H. Open to third year students.
40. Clinical Application of Physiologic Principles. Dr. BLUMGART and Associates. Fridays, 2 p.m., February through May, B.I.H. Open to first year students.
41. Clinical Applications of Pharmacology. Dr. BLUMGART, LINENTHAL and FREEDBERG. Every other Thursday, 2.00 to 3.30 p.m., October through January, B.I.H. Open to second year students.
42. Diabetes Mellitus. N.E.D.H. Dr. MARBLE and Associates. Tuesdays and Thursdays, 2.00 to 3.30 p.m. February. Physiology, pathology and treatment of diabetes and its complications. Lectures, conferences and case presentations. Open to second, third and fourth year students.
44. Modern Biology and Disease Processes. M.G.H. Dr. GROSS and Associates. Tuesdays, 2-hour seminar, time to be arranged. February and March. Open to second and third year students.

MEDICAL SCHOOL

Dermatology

CHESTER N. FRAZIER, M.D., DR.P.H., A.M. (hon.), Edward Wigglesworth Professor of Dermatology and Head of the Department.

WALTER F. LEVER, M.D., Assistant Clinical Professor of Dermatology.

MAURICE M. TOLMAN, M.D., Assistant Clinical Professor of Dermatology.

IRVIN H. BLANK, PH.D., Associate in Dermatology.

ROBERT D. GRIESEMER, M.D., Associate in Dermatology.

ALEXANDER G. MATOLTSY, M.D., PH.D., Associate in Dermatology (on leave of absence from October 1, 1956 through September 30, 1957).

JOHN ADAMS, JR., M.D., Instructor in Dermatology.

WILLIAM R. HILL, M.D., Instructor in Dermatology.

ROBERT F. TILLEY, M.D., Instructor in Dermatology.

EARL A. GLICKLICH, M.D., Assistant in Dermatology.

MILTON E. HELMAN, M.D., Assistant in Dermatology.

CHARLES S. KEUPER, M.D., Assistant in Dermatology.

PHILIP L. McCARTHY, M.D., Assistant in Dermatology.

SABINO JOSEPH SINESI, M.D., Research Fellow in Dermatology.

ALEXANDER B. TIMM, JR., M.D., Teaching Fellow in Dermatology (resigned December 31, 1956).

REQUIRED COURSES

DERMATOLOGY A. *Third Year.*—In the first half-year five lectures are given in the fundamentals of dermatology. The object is to present the essential principles underlying the production of cutaneous abnormalities and to identify and relate these changes, both functional and structural, to the processes of disease in general. The subject is considered not as an isolated area of medicine, but as an integral part of medicine itself. It is hoped that through this method of study the student may come to understand the unity of the individual in his response to the various pathogenic forces of nature.

The student serves also as a clerk in the out-patient clinic, where he studies and discusses with the staff, patients assigned to him.

HARVARD UNIVERSITY

Emphasis is placed upon history-taking and physical examination of patients in such a way as to make the student aware that the diseases which he observes require, in general, the techniques of clinical medicine for their study and interpretation. Rational methods of treatment are insisted upon.

The students, in sections, attend morning ward rounds.

THIRD YEAR	HOURS
Lectures. Dr. FRAZIER. H.M.S. <i>Five lectures.</i>	5
Section work. Clinical Dermatology. Dr. FRAZIER and Associates. M.G.H. <i>Each student attends ten or eleven sessions (clinics and ward rounds) of three hours each.</i>	32

FOURTH YEAR ELECTIVE COURSE

1. Clinical Clerkship. Dr. FRAZIER and Associates. M.G.H. Whole course, all day, or half-course, mornings, with permission of the head of the department. Limited to three students each month.

Neurology and Psychiatry

NEUROLOGY and PSYCHIATRY embrace two academic departments of Neurology — one at the Massachusetts General Hospital and the other at the Boston City Hospital — and two academic departments of Psychiatry — one at the Massachusetts Mental Health Center and the other at the Massachusetts General Hospital. The Department of Psychiatry at the Massachusetts Mental Health Center includes the teaching units in the Children's Hospital, Peter Bent Brigham Hospital, Beth Israel Hospital and Boston City Hospital. The Department of Psychiatry at the Massachusetts General Hospital includes the teaching unit at the McLean Hospital.

On behalf of the several academic departments, a course in Neuropathology is given in a special teaching and demonstration laboratory in the Warren Museum at the Medical School.

RAYMOND D. ADAMS, M.D., Bullard Professor of Neuropathology and Head of the Department of Neurology at the Massachusetts General Hospital.

DEREK E. DENNY-BROWN, DR.PHIL., M.D., A.M. (hon.), James Jackson Putnam Professor of Neurology and Head of the

MEDICAL SCHOOL

Department at the Boston City Hospital, and Chairman of the Executive Committee of the Departments of Neurology and Psychiatry.

ERICH LINDEMANN, PH.D., M.D., Professor of Psychiatry and Head of the Department at the Massachusetts General Hospital.

JACK R. EWALT, M.D., Clinical Professor of Psychiatry.

GEORGE E. GARDNER, PH.D., M.D., Clinical Professor of Psychiatry.

IVES HENDRICK, M.D., Clinical Professor of Psychiatry.

GEORGE SASLOW, PH.D., M.D., Clinical Professor of Psychiatry.

GRETE L. BIBRING, M.D., Associate Clinical Professor of Psychiatry.

HENRY M. FOX, M.D., Associate Clinical Professor of Psychiatry.

ALFRED POPE, M.D., Associate Professor of Neuropathology at McLean Hospital.

ELVIN V. SEMRAD, M.D., Associate Clinical Professor of Psychiatry, and Acting Head of the Department at the Boston Psychopathic Hospital.

ALFRED H. STANTON, M.D., Associate Professor of Psychiatry.

PAUL I. YAKOVLEV, M.D., Associate Clinical Professor of Neuropathology and Curator of the Warren Anatomical Museum.

CHARLES M. FISHER, M.D., Assistant Clinical Professor of Neurology.

JOSEPH M. FOLEY, M.D., Assistant Professor of Neurology.

MILTON GREENBLATT, M.D., Assistant Clinical Professor of Psychiatry.

GREGORY ROCHLIN, M.D., Assistant Clinical Professor of Psychiatry.

ROBERT S. SCHWAB, M.D., Assistant Clinical Professor of Neurology.

PHILIP SOLOMON, M.D., Assistant Clinical Professor of Psychiatry.

EDWIN M. COLE, M.D., Clinical Associate in Neurology.

GAYLORD P. COON, M.D., Clinical Associate in Psychiatry.

FRANK C. d'ELSEAUX, M.D., Clinical Associate in Psychiatry.

DANIEL H. FUNKENSTEIN, M.D., Clinical Associate in Psychiatry.

HARVARD UNIVERSITY

- SANFORD R. GIFFORD, JR., M.D., Associate in Psychiatry.
LESTER L. HASENBUSH, M.D., Clinical Associate in Psychiatry.
ROBERT W. HYDE, M.D., Clinical Associate in Psychiatry.
HARRY L. KOZOL, M.D., Clinical Associate in Neurology.
DORIS MENZER-BENARON, M.D., Clinical Associate in Psychiatry.
WILLIAM F. MURPHY, M.D., Clinical Associate in Psychiatry.
WILLIAM H. TIMBERLAKE, M.D., Clinical Associate in Neurology.
LAURENCE D. TREVETT, M.D., Clinical Associate in Psychiatry.
LUTFU L. UZMAN, M.D., Associate in Neurology.
MAURICE VICTOR, M.D., Clinical Associate in Neurology.
AVERY D. WEISMAN, M.D., Clinical Associate in Psychiatry.
ELIZABETH R. ZETZEL, M.D., Clinical Associate in Psychiatry.
CHARLES S. KUBIK, M.D., Lecturer on Neuropathology.
MARY A. B. BRAZIER, PH.D., Research Associate in Neurology.
WILLIAM A. CAUDILL, PH.D., Research Associate in Anthropology
in the Department of Psychiatry.
EUGENE COGAN, PH.D., Research Associate in Psychology in the
Department of Psychiatry.
JOHN M. VON FELSINGER, PH.D., Research Associate in Psychology.
DANIEL J. LEVINSON, PH.D., Research Associate in Social Science
and Psychiatry.
ROBERT J. LIFTON, M.D., Research Associate in Psychiatry.
OGDEN R. LINDSLEY, S.M., Research Associate in Psychiatry.
ROBERT T. LONG, M.D., Research Associate in Psychiatry.
JOSEPH D. MATARAZZO, PH.D., Research Associate in Psychology.
LOVICK C. MILLER, PH.D., Research Associate in Psychology in
the Department of Psychiatry.
IRENE R. PIERCE, PH.D., Research Associate in Psychology.
DAVID SHAPIRO, PH.D., Research Associate in Psychology.
GEORGE A. TALLAND, PH.D., Research Associate in Psychology.
SAMUEL WALDFOGEL, PH.D., Research Associate in Psychology
in the Department of Psychiatry.
JOHN A. ABBOTT, M.D., Instructor in Neurology.
HAROLD S. ALBERT, M.D., C.M., Instructor in Psychiatry.
MYER ASEKOFF, M.D., Instructor in Psychiatry.
CHARLES R. ATWELL, A.M., Instructor in Psychology.

MEDICAL SCHOOL

- BETTY Q. BANKER, M.D., Instructor in Neurology.
HERBERT BARRY, JR., PH.D., M.D., Instructor in Psychiatry.
TULLY BENARON, M.D., Instructor in Psychiatry.
CLEMENS E. BENDA, M.D., Instructor in Neuropathology.
MARTIN A. BEREZIN, M.D., Instructor in Psychiatry.
LEO BERMAN, M.D., Instructor in Psychiatry.
GASTON E. BLOM, M.D., Instructor in Psychiatry.
SAMUEL BOJAR, M.D., Instructor in Psychiatry.
WILLIS H. BOWER, M.D., Instructor in Psychiatry.
MADELAINE R. BROWN, M.D., Instructor in Neurology.
LOUIS S. CHASE, M.D., Instructor in Psychiatry.
MANDEL E. COHEN, M.D., Instructor in Neurology.
EDWARD M. DANIELS, M.D., Instructor in Psychiatry.
DANIEL C. DAWES, M.D., Instructor in Psychiatry.
LYDIA G. DAWES, M.D., Instructor in Psychiatry.
PHILIP R. DODGE, M.D., Instructor in Neurology.
THOMAS F. DWYER, M.D., Instructor in Psychiatry.
SAMUEL H. EPSTEIN, M.D., Instructor in Neurology.
ERIK GLUD, M.D., Instructor in Psychiatry.
GERTRUDE R. GREENBLATT, M.D., Instructor in Psychiatry.
HOWARD HERMAN, M.D., Instructor in Psychiatry.
HELEN H. HESS, M.D., Instructor in Neuropathology.
SIMON HORENSTEIN, M.D., Instructor in Neurology.
PAUL M. HOWARD, M.D., Instructor in Psychiatry.
DOROTHY S. HUNTINGTON, PH.D., Instructor in Psychology in the
Department of Psychiatry.
RALPH J. KAHANA, M.D., Instructor in Psychiatry.
MERTON J. KAHNE, M.D., Instructor in Psychiatry.
CHARLES A. KANE, M.D., Instructor in Neurology.
IRVING KAUFMAN, M.D., Instructor in Psychiatry.
EDMUND N. KUDARAUSKAS, M.D., Instructor in Psychiatry.
JOHN H. LAMONT, M.D., Instructor in Psychiatry.
MARJORIE B. LEES, PH.D., Instructor in Neuropathology.
SIDNEY LEVIN, M.D., Instructor in Psychiatry.
SCHOUL LEVISON, M.D., Instructor in Neurology.
MARIA P. LORENZ, M.D., Instructor in Psychiatry.

HARVARD UNIVERSITY

- ALFRED O. LUDWIG, M.D., Instructor in Psychiatry.
JAMES MANN, M.D., Instructor in Psychiatry.
WALTER MANN, Ph.D., M.D., Instructor in Psychiatry.
ROBERT H. MCCARTER, M.D., Instructor in Psychiatry.
WILLIAM F. McLAUGHLIN, M.D., C.M., Instructor in Psychiatry.
JEROME K. MERLIS, M.D., Instructor in Neurology (resigned
August 31, 1956).
JOHN S. MEYER, M.D., C.M., Instructor in Neurology.
JOSEPH J. MICHAELS, M.D., Instructor in Psychiatry.
JOST J. MICHELSSEN, M.D., Instructor in Neurology.
CECIL MUSHATT, M.D., Instructor in Psychiatry.
JOHN C. NEMIAH, M.D., Instructor in Psychiatry.
VINCENT P. PERLO, M.D., Instructor in Neurology.
HUNTINGTON PORTER, M.D., Instructor in Neurology.
FRED A. QUADFASEL, M.D., Instructor in Neurology.
GARDNER C. QUARTON, M.D., Instructor in Psychiatry.
EVEOLEEN N. REXFORD, M.D., Instructor in Psychiatry.
EDWARD P. RICHARDSON, JR., M.D., Instructor in Neurology.
BENJAMIN C. RIGGS, M.D., Instructor in Psychiatry.
NICHOLAS D. RIZZO, Ed.D., M.D., Instructor in Psychiatry.
BERTRAM SELVERSTONE, M.D., Instructor in Neuropathology.
PETER E. SIFNEOS, M.D., Instructor in Psychiatry.
MALVINA STOCK, M.D., Instructor in Psychiatry.
JOHN F. SULLIVAN, M.D., Instructor in Neurology.
HELEN H. TARTAKOFF, M.D., Instructor in Psychiatry.
ARTHUR F. VALENSTEIN, M.D., Instructor in Psychiatry.
JEROME L. WEINBERGER, M.D., Instructor in Psychiatry.
HENRY WERMER, M.D., Instructor in Psychiatry.
NORMAN E. ZINBERG, M.D., Instructor in Psychiatry.
MORRIS H. ADLER, M.D., Assistant in Psychiatry.
JOHN R. BLITZER, M.D., Assistant in Psychiatry.
JOHN S. BOCKOVEN, M.D., Assistant in Psychiatry.
LENORE A. BOLING, M.D., Assistant in Psychiatry.
DOROTHY M. BOLLINGER, M.D., Assistant in Psychiatry.
FRANCES J. BONNER, M.D., Assistant in Psychiatry.
BENJAMIN B. BRUSSEL, M.D., Assistant in Psychiatry.

MEDICAL SCHOOL

- ARTHUR P. BURDON, M.D., Assistant in Psychiatry.
ARTHUR J. CAIN, M.D., Assistant in Psychiatry.
FRANKLIN CARTER, M.D., Assistant in Psychiatry.
MORRIS E. CHAFETZ, M.D., Assistant in Psychiatry.
JACOB CHRIST, M.D., Assistant in Psychiatry.
THEODORE R. CLARK, M.D., Assistant in Psychiatry.
JOHN C. COOLIDGE, M.D., Assistant in Psychiatry.
FREDERICK H. CUMMER, JR., M.D., Assistant in Psychiatry (resigned July 31, 1956).
CHESTER C. d'AUTREMONT, M.D., Assistant in Psychiatry.
FRANCIS L. A. deMARNEFFE, M.B., CH.B., Assistant in Psychiatry.
ALBERT C. ENGLAND, JR., M.D., Assistant in Neurology.
ABRAHAM FINEMAN, M.D., Assistant in Psychiatry.
DONALD S. GAIR, M.D., Assistant in Psychiatry.
MARTIN R. GARDNER, M.D., Instructor in Psychiatry.
BENJAMIN F. GILL, M.D., Assistant in Psychiatry.
MAX GOLDMAN, M.D., Assistant in Neurology.
JACK GREEN, M.D., C.M., Assistant in Psychiatry.
SALOMON HAKIM, M.D., Assistant in Neuropathology.
WALLACE F. HALEY, JR., M.D., Assistant in Psychiatry.
VOLTA R. HALL, M.D., Assistant in Psychiatry.
HERBERT I. HARRIS, M.D., Assistant in Psychiatry.
JAMES A. HAYCOX, M.D., Assistant in Psychiatry.
FRANCIS C. HERSEY, M.D., Assistant in Psychiatry.
RICHMOND HOLDER, M.D., Assistant in Psychiatry.
STANLEY S. KANTER, M.D., Assistant in Psychiatry.
SAMUEL KAPLAN, M.D., Assistant in Psychiatry.
ABRAHAM KAYE, M.D., Assistant in Psychiatry.
ELIOT LANDSMAN, M.D., Assistant in Psychiatry.
JULIUS LEVINE, M.D., Assistant in Psychiatry.
ANNA LEVINGSTON, M.D., Assistant in Psychiatry.
CHARLES E. MAGRAW, M.D., Assistant in Psychiatry.
ROBERT R. MEZER, M.D., Assistant in Psychiatry.
ARNOLD H. MODELL, M.D., Assistant in Psychiatry.
THOMAS A. MORRIS, JR., M.D., Assistant in Psychiatry.
NORMAN L. PAUL, M.D., Assistant in Psychiatry.

HARVARD UNIVERSITY

- EDMUND C. PAYNE, JR., M.D., Assistant in Psychiatry.
HERBERT I. POSIN, M.D., Assistant in Psychiatry.
ROBERT C. REID, M.D., Assistant in Psychiatry.
DAVID E. REISER, M.D., Assistant in Psychiatry.
LEONARD J. ROBINSON, M.D., Assistant in Psychiatry.
NANCY (YOUSE) ROLLINS, M.D., Assistant in Psychiatry.
KURT E. ROSE, M.D., Assistant in Psychiatry.
JOSEPH C. SABBATH, M.D., C.M., Assistant in Psychiatry.
ADELE E. SCHARL, M.D., Assistant in Psychiatry.
LIONEL A. SCHWARTZ, M.D., Assistant in Psychiatry.
JAMES D. SHARPE, M.D., Assistant in Psychiatry.
S. NORMAN SHERRY, M.D., Assistant in Psychiatry.
WILLIAM O. SIRES, M.D., Assistant in Psychiatry.
BENSON R. SNYDER, M.D., Assistant in Psychiatry.
HAROLD D. STALVEY, M.D., Assistant in Psychiatry.
ALVIN V. STANDER, M.D., Assistant in Psychiatry.
CHRISTOPHER T. STANDISH, M.D., Assistant in Psychiatry.
RUTH E. STAUFFER (BUCKLEY), M.D., Assistant in Neurology.
ELLIOTT H. SWEETSER, M.D., Assistant in Psychiatry.
KAREL VAN S. TOLL, M.D., Assistant in Neurology.
H. RICHARD TYLER, M.D., Assistant in Neurology.
PAUL L. WATSON, M.D., Assistant in Psychiatry.
LIONELLE D. WELLS, M.D., Assistant in Psychiatry.
DONALD WEXLER, M.D., Assistant in Psychiatry.
LEE H. WILLER, M.D., Assistant in Psychiatry.
JOANN WILSON, M.D., Assistant in Psychiatry.
JAMES H. WINGATE, M.D., Assistant in Psychiatry.
PETER H. WOLFF, M.D., Assistant in Psychiatry.
GEORGE H. WOODWARD, M.D., Assistant in Psychiatry.
MAX L. WOOL, M.D., Assistant in Psychiatry.
ROBERT S. ADAMS, M.D., Research Fellow in Psychiatry.
KARL-ERIK ASTRÖM, M.D., Research Fellow in Neurology.
JOHN S. BARLOW, M.D., Research Fellow in Neurology.
NORMAN R. BERNSTEIN, M.D., Research Fellow in Psychiatry.
RICHARD W. BOYD, PH.D., Research Fellow in Psychiatry.
DEXTER M. BULLARD, JR., M.D., Research Fellow in Psychiatry.

MEDICAL SCHOOL

- AYDIN CANKARDAS, PH.D., Research Fellow in Psychology.
REGINALD G. CHRISTIE, M.D., D.P.H., Research Fellow in Psychiatry.
- ESTHER A. DAVIDSON, M.B., CH.B., Research Fellow in Psychiatry.
GERALD E. DAVIDSON, M.D., Research Fellow in Psychiatry.
PIERRE M. DREYFUS, M.D., Research Fellow in Neuropathology.
CHARLOTTE R. GOLDMAN, M.D., Research Fellow in Psychiatry.
JOAE GRAHAM, M.D., Research Fellow in Psychiatry.
THOMAS P. HACKETT, M.D., Research Fellow in Psychiatry.
LEE JACKSON, M.D., Research Fellow in Psychiatry.
HERBERT R. KARP, M.D., Research Fellow in Neurology.
JEAN A. KRAG, M.D., Research Fellow in Psychiatry.
P. HERBERT LEIDERMAN, M.D., Research Fellow in Psychiatry.
SIMEON LOCKE, M.D., Research Fellow in Neurology.
RUTH G. MATARAZZO, PH.D., Research Fellow in Psychology.
JOHN F. McCARTHY, M.D., Research Fellow in Psychiatry.
SAMUEL L. MOGUL, M.D., Research Fellow in Psychiatry (appointment expired May 31, 1957).
ANN PARSONS, M.D., Research Fellow in Psychiatry.
TNUVA W. PAUL, M.D., Research Fellow in Psychiatry.
FERNAND POIRIER, M.D., Research Fellow in Psychiatry.
MAXWELL G. POTTER, M.D., Research Fellow in Psychiatry.
HERBERT A. RAVIN, M.D., Research Fellow in Neurology.
FRANCOISE J. ROBERT, M.D., Research Fellow in Neuropathology.
FERNANDO ROSAS-PENA, M.D., Research Fellow in Neurology (appointment expired March 31, 1956).
MARY L. L. SCHOLL, M.D., Research Fellow in Neurology.
INGRID SONDERGAARD, M.D., Research Fellow in Psychiatry.
JOHN VORENBERG, M.D., Research Fellow in Psychiatry.
ELSA W. R. WAHREN, M.D., Research Fellow in Psychiatry.
KARL O. W. WAHREN, M.D., Research Fellow in Psychiatry.
LEONARD WEINER, M.D., Research Fellow in Psychiatry.
DAVID ABRAHAMS, M.D., Teaching Fellow in Psychiatry.
WILLIAM C. ACKERLY, M.D., Teaching Fellow in Psychiatry.
MATTHEW S. ATKINSON, M.D., Teaching Fellow in Neurology.
DONALD W. BAXTER, M.D., Teaching Fellow in Neurology.

HARVARD UNIVERSITY

- SAMUEL BOGOCH, M.D., Teaching Fellow in Psychiatry.
EDWARD N. BRENNAN, M.D., Teaching Fellow in Psychiatry.
MIRIAM W. CARMICHAEL, M.D., Teaching Fellow in Neuropathology.
FORTUNATO G. CASTILLO, M.D., Teaching Fellow in Psychiatry.
JOHN G. CLARK, JR., M.D., Teaching Fellow in Psychiatry.
MARTIN R. COLES, M.D., Teaching Fellow in Psychiatry.
ROBERT H. DUNCAN, M.B., CH.B., Teaching Fellow in Psychiatry.
JOHN H. DWYER, M.D., Teaching Fellow in Psychiatry.
IRWIN FEINBERG, M.D., Teaching Fellow in Psychiatry.
ALBERT H. FEINGOLD, M.D., Teaching Fellow in Psychiatry.
LEONARD J. FRIEDMAN, M.D., Teaching Fellow in Psychiatry.
RICHARD GALDSTON, M.D., Teaching Fellow in Psychiatry.
JACQUELINE GAUTHIER, M.D., Teaching Fellow in Psychiatry.
SHEPARD C. GINANDES, M.D., Teaching Fellow in Psychiatry.
CARMEN R. GOLDINGS, M.D., Teaching Fellow in Psychiatry.
HERBERT J. GOLDINGS, M.D., Teaching Fellow in Psychiatry.
HENRY U. GRUNEBEAUM, M.D., Teaching Fellow in Psychiatry.
LESTER L. HAVENS, M.D., Teaching Fellow in Psychiatry.
WAYNE HEBERTSON, M.D., Teaching Fellow in Neurology.
RONEE I. HERRMANN, M.D., Teaching Fellow in Psychiatry.
EDA M. KAHANA, M.D., Teaching Fellow in Psychiatry.
WILLIAM E. KARNES, M.D., Teaching Fellow in Neurology.
GERALD L. KLERMAN, M.D., Teaching Fellow in Psychiatry.
MARINA P. KYRIAZIDOU, M.D., Teaching Fellow in Neurology.
EDWARD LEWIN, M.D., Teaching Fellow in Neurology.
GWYN LILE, M.D., Teaching Fellow in Psychiatry.
JOHN E. MACK, M.D., Teaching Fellow in Psychiatry.
ELLIOTT L. MANCALL, M.D., Teaching Fellow in Neuropathology.
ELIZABETH A. MARTIN, M.B., CH.B., Teaching Fellow in Neurology.
RICHARD F. MAYER, M.D., Teaching Fellow in Neurology.
ROBERT D. MEHLMAN, M.D., Teaching Fellow in Psychiatry.
JACK H. MENDELSON, M.D., Teaching Fellow in Psychiatry.
ROY W. MENNINGER, M.D., Teaching Fellow in Psychiatry.
KATHLEEN M. MOGUL, M.D., Teaching Fellow in Psychiatry.

MEDICAL SCHOOL

ROBERT F. MOORE, M.D., Teaching Fellow in Psychiatry.
CHARLES E. MORRIS, M.D., Teaching Fellow in Neurology.
RUTH M. MURPHY, M.D., Teaching Fellow in Psychiatry.
PATRICIA J. NEELY, M.D., Teaching Fellow in Psychiatry.
DONALD H. OSTERBERG, M.D., Teaching Fellow in Neurology.
JOHN H. PARKS, M.D., Teaching Fellow in Psychiatry.
ERNEST H. PICARD, M.D., Teaching Fellow in Neurology.
HANS G. PREUSS, M.D., Teaching Fellow in Psychiatry.
OSCAR M. REINMUTH, M.D., Teaching Fellow in Neurology.
EDWARD R. RITVO, M.D., Teaching Fellow in Psychiatry.
RAYMOND L. ROBILLARD, M.D., Teaching Fellow in Neurology.
RUICK S. ROLLAND, M.D., Teaching Fellow in Psychiatry.
BENJAMIN SHAMBAUGH, M.D., Teaching Fellow in Psychiatry.
ARTHUR K. SHAPIRO, M.D., Teaching Fellow in Psychiatry.
ALAN A. STONE, M.D., Teaching Fellow in Psychiatry.
HELEN D. WALLACH, M.D., Teaching Fellow in Psychiatry.
MARK M. WALTER, JR., M.D., M.P.H., Teaching Fellow in Psychiatry.
ARTHUR G. WALTZ, M.D., Teaching Fellow in Neurology.
HENRY D. WEBSTER, M.D., Teaching Fellow in Neuropathology.
THOMAS G. WEBSTER, M.D., Teaching Fellow in Psychiatry.
HOWARD E. WULSIN, M.D., Teaching Fellow in Psychiatry.

Affiliated:

RANDOLPH K. BYERS, M.D., *Assistant Clinical Professor of Pediatrics.*

JAY B. ANGEVINE, JR., Ph.D., Assistant in Neuroanatomy in the Department of Neuropathology.

Neurology

REQUIRED COURSES

NEUROLOGY A. *Second Year.* — Clinical lectures are given at the Boston City and Massachusetts General Hospitals to the entire class. The object of the course is to give the student a general knowledge of the principles of diagnosis and treatment of diseases of the nervous system as a preparation for later work.

NEUROLOGY B. *Third Year.* — Clinical lectures are given in the third

HARVARD UNIVERSITY

year at the Boston City and the Massachusetts General Hospitals. The members of the class are also required to work in the neurological service at the B.C.H. or M.G.H. in sections during the year. For this work the more didactic teaching of the second year serves as a necessary preparation. The work is practical in character and serves to bring the student into immediate contact with patients.

SECOND YEAR	HOURS
Clinical lectures. Dr. DENNY-BROWN, B.C.H. and Dr. ADAMS, M.G.H.	12

THIRD YEAR	
Clinical lectures. Dr. DENNY-BROWN, B.C.H. and Dr. ADAMS, M.G.H. <i>Last eight Saturdays in first half-year.</i>	12
Section teaching. B.C.H. and M.G.H. <i>Each student attends ten or eleven two and a half-hour exercises in neurology.</i>	27

FOURTH YEAR ELECTIVE COURSES

1. Neurology. Dr. DENNY-BROWN, B.C.H. Whole course (clerkship), all day.
2. Neurology. Dr. ADAMS, M.G.H. Whole course (clerkship), all day. Each course limited to two students each month.
3. Pediatric Neurology. Drs. DODGE, ADAMS and Associates. M.G.H. Whole course, all day. (Same course as Pediatrics IVc.)

Neuropathology

REQUIRED COURSE

NEUROPATHOLOGY A. *Second Year.*—The course consists of lectures, laboratory work, and demonstrations, amounting to fifty-four hours. The lectures introduce conceptions of value for the third year courses in neurology and psychiatry and for the neurological parts of courses in internal medicine and in surgery. Microscopical and gross specimens are studied.

SECOND YEAR	HOURS
Lectures and laboratory work. Staff. <i>Three times a week, for six weeks.</i>	54

MEDICAL SCHOOL

FOURTH YEAR ELECTIVE COURSE

20. Laboratory work. Opportunities for research are available at the laboratories of the M.G.H., B.C.H., and H.M.S. Time and instructor to be arranged with Drs. ADAMS or DENNY-BROWN.

Psychiatry

REQUIRED COURSES

PSYCHIATRY A. First Year.—Normal Emotional Development. 24 Lectures and 8 Discussion Sessions. Introduction to the development of the human personality. The course reviews the understanding of the human being, whether sick or well, and the foundation is laid for the more advanced courses in psychopathology. The lectures deal with the development of human personality in the setting of the family and the culture from infancy through childhood and adolescence, to maturity and aging. Emphasis is laid upon the adjustment of normal personality types to various crisis situations, the influence of anxiety, and the significance of unconscious forces.

PSYCHIATRY B. Second Year.—Lectures introduce the methods of history-taking and the examination of patients applicable to the study of patients with psychiatric disorders. The course includes lectures and clinical instruction in sections of four students on the wards of the general hospitals. It is designed to serve as a preparation for the third year, when the student will have direct contact with patients on the hospital wards.

PSYCHIATRY C. Third Year.—The class is divided into small sections for the clinical study of patients. Each student studies individual cases in the wards of the Massachusetts Mental Health Center. During the second-half year, clinical lectures are given once a week at the Massachusetts Mental Health Center. The most important varieties of mental disorder are presented with emphasis upon early recognition of mental disease and methods of treatment.

PSYCHIATRY D. Fourth Year.—Each student serves as a clinical clerk for one month at the Massachusetts Mental Health Center, the Massachusetts General Hospital, or the McLean Hospital in conjunction with the Beth Israel Hospital, for out-patient work. Work with

HARVARD UNIVERSITY

in-patients consists of the study of patients with various types of mental disorder and their treatment. The study and treatment of patients, with emphasis on the applications of psychiatry to general medical practice is given by the Harvard Teaching Unit of the Massachusetts Mental Health Center and the out-patient departments of the Massachusetts General and Beth Israel Hospitals. The psychiatric problems of children are discussed by staff members of the Judge Baker Foundation at the Children's Hospital, and by those associated with the M.M.H.C., M.G.H., and B.I.H.

FIRST YEAR	HOURS
PSYCHIATRY A. Lectures and discussion groups. Drs. LINDEMANN, GARDNER, BIBRING and Associates. <i>Once a week throughout the year.</i>	32
SECOND YEAR	
PSYCHIATRY B. Lectures and section teaching. Drs. LINDEMANN, BIBRING and Associates. <i>In addition to twelve lectures, each student attends four three-hour exercises as part of the course in physical diagnosis.</i>	12
THIRD YEAR	
PSYCHIATRY C. Lectures and section teaching. Dr. SEMRAD and Associates. M.M.H.C. <i>Each student attends at least ten three-hour exercises.</i>	44
FOURTH YEAR	
PSYCHIATRY D. Clinical Clerkship. Dr. HENDRICK and Associates at the hospitals concerned: D1-M.M.H.C., D2-M.G.H., D3-McL.H.	144

FOURTH YEAR ELECTIVE COURSES (Offered monthly throughout the year.)

Adult Psychiatry

4. Dr. HENDRICK and Associates. M.M.H.C.
5. Dr. LINDEMANN and Associates. M.G.H.
6. Dr. STANTON and Associates. McL.H.
7. Dr. BIBRING and Associates. B.I.H.

MEDICAL SCHOOL

Child Psychiatry

8. Dr. ROCHLIN and Associates. M.M.H.C.
9. Dr. BLOM and Associates. M.G.H. (same course as Pediatrics 5)
10. Dr. BIBRING and Associates. B.I.H.
11. Dr. Gardner and Associates. C.M.C.

Ophthalmology

EDWIN B. DUNPHY, M.D., Henry Willard Williams Professor of Ophthalmology at the Massachusetts Eye and Ear Infirmary and Head of the Department.

DAVID G. COGAN, M.D., Professor of Ophthalmology and Director of the Howe Laboratory of Ophthalmology.

PAUL A. CHANDLER, M.D., S.D. (hon.), Associate Clinical Professor of Ophthalmology.

WILLIAM P. BEETHAM, M.D., Assistant Clinical Professor of Ophthalmology.

VIRGIL G. CASTEN, M.D., Assistant Clinical Professor of Ophthalmology.

HENRY F. ALLEN, M.D., Clinical Associate in Ophthalmology.

CHARLES L. SCHEPENS, M.D., Clinical Associate in Ophthalmology.

ALBERT E. SLOANE, M.D., Clinical Associate in Ophthalmology.

ENDRE A. BALAZS, M.D., Lecturer on Ophthalmology.

PAUL BOEDER, Ph.D., Lecturer on Ophthalmology.

RUSSELL L. CARPENTER, Ph.D., Lecturer on Ophthalmology.

TRYGVE GUUNDERSEN, M.D., Lecturer on Ophthalmology.

MARIE A. JAKUS, Ph.D., Lecturer on Ophthalmology.

ALAN C. WOODS, M.D., F.R.C.S., Visiting Lecturer on Ophthalmology (April 22, 1957 through April 28, 1957).

LEONA R. ZACHARIAS, Ph.D., Lecturer on Ophthalmology.

HIROSHI IKUI, M.D., Research Associate in Ophthalmology.

HARRY E. BRACONIER, M.D., Instructor in Ophthalmology.

THOMAS J. CAVANAUGH, M.D., C.M., Instructor in Ophthalmology.

JULIAN F. CHISHOLM, JR., M.D., Instructor in Ophthalmology.

JOSEPH M. CLOUGH, M.D., Instructor in Ophthalmology.

MAHLON T. EASTON, M.D., Instructor in Ophthalmology.

CARL C. JOHNSON, M.D., Instructor in Ophthalmology.

HARVARD UNIVERSITY

BRENDAN D. LEAHEY, M.D., Instructor in Ophthalmology.
SUMNER D. LIEBMAN, M.D., Instructor in Ophthalmology.
HENRY A. MOSHER, M.D., Instructor in Ophthalmology.
ABRAHAM POLLEN, M.D., Instructor in Ophthalmology.
EARL S. SEALE, M.D., Instructor in Ophthalmology.
TAYLOR R. SMITH, M.D., Instructor in Ophthalmology.
GARRETT L. SULLIVAN, JR., M.D., Instructor in Ophthalmology.
ROBERT J. BROCKHURST, M.D., Assistant in Ophthalmology.
JOHN M. HILL, M.D., Assistant in Ophthalmology.
RICHARD B. PIPPITT, M.D., Assistant in Ophthalmology.
CHARLES D. J. REGAN, M.D., Assistant in Ophthalmology.
KARL RIEMER, M.D., Assistant in Ophthalmology.

REQUIRED COURSES

First Year. — Lecture in anatomy and physiology of the eye.

Second Year. — Lecture in pathology and pharmacology of the eye.

Third Year. — Instruction in clinical ophthalmology.

	THIRD YEAR	HOURS
Thirteen clinical exercises. M.E.E.I.	32	
Lectures on clinical ophthalmology. H.M.S., <i>second half-year.</i>	5	

FOURTH YEAR ELECTIVE COURSE

1. Clinical Ophthalmology. Drs. DUNPHY, CHANDLER, COGAN and Associates. M.E.E.I. Whole course, all day.

Howe Laboratory of Ophthalmology

DAVID G. COGAN, M.D., Professor of Ophthalmology and Director of the Howe Laboratory of Ophthalmology.

W. MORTON GRANT, M.D., Associate Professor of Ophthalmology at the Massachusetts Eye and Ear Infirmary.

JIN H. KINOSHITA, PH.D., Associate in Biological Chemistry in the Howe Laboratory of Ophthalmology.

DAVID D. DONALDSON, M.D., Instructor in Ophthalmic Research.

HAROLD L. KERN, PH.D., Instructor in Ophthalmic Research.

TOICHIRO KUWABARA, M.D., Instructor in Ophthalmic Research.

MEDICAL SCHOOL

MAURICE E. LANGHAM, PH.D., Instructor in Ophthalmic Research
(appointment expired April 30, 1957).

ROBERT R. TROTTER, M.D., Instructor in Ophthalmology.

ROBERT C. WATZKE, M.D., Research Fellow in Ophthalmic Research.

The Howe Laboratory of Ophthalmology was founded in 1927 by the late Dr. Lucien Howe. A sum of money equal to that initially given by Dr. Howe was donated by the Rockefeller Foundation. Laboratory space was provided by the Massachusetts Eye and Ear Infirmary.

The purpose of the Laboratory is to advance ophthalmology; its researches are not restricted to any particular phase of this science. Advantage is taken of the rich clinical material of the Infirmary. While the Laboratory is purely an institution for research, the services of the various members of the staff are available for teaching in the Harvard Medical School and for assistance in the clinical work of the Infirmary.

Radiology

FELIX G. FLEISCHNER, M.D., Clinical Professor of Radiology.

EDWARD B. D. NEUHAUSER, M.D., Associate Clinical Professor of Radiology.

LAURENCE L. ROBBINS, M.D., Associate Clinical Professor of Radiology.

JAMES B. DEALY, M.D., Assistant Clinical Professor of Radiology and Acting Head of the Department.

MAX RITVO, M.D., Assistant Clinical Professor of Radiology.

MILFORD D. SCHULZ, M.D., Assistant Clinical Professor of Radiology.

MARTIN H. WITTENBORG, M.D., Assistant Clinical Professor of Radiology.

STANLEY M. WYMAN, M.D., Assistant Clinical Professor of Radiology.

ALEXANDER S. MACMILLAN, M.D., Clinical Associate in Radiology.

JOSEPH H. MARKS, M.D., Clinical Associate in Radiology.

RICHARD SCHATZKI, M.D., Clinical Associate in Radiology.

HARVARD UNIVERSITY

IRVING A. SHAUFFER, M.D., Clinical Associate in Radiology.
ARNOLD L. BERENBERG, M.D., Instructor in Radiology.
JOHN E. GARY, M.D., Instructor in Radiology.
JOSEPH HANELIN, M.D., Instructor in Radiology.
EDWARD J. HEALEY, M.D., Instructor in Radiology.
JOHN D. REEVES, JR., M.D., Instructor in Radiology.
JOHN L. SOSMAN, M.D., Instructor in Radiology.
WILLIAM J. BROWN, JR., M.D., Assistant in Radiology.
BORIS P. BUSHUEFF, M.D., Assistant in Radiology.
GIULIO J. D'ANGIO, M.D., Assistant in Radiology.
FRED L. DEGIACOMO, M.D., Assistant in Radiology.
JACK R. DREYFUSS, M.D., Assistant in Radiology.
GEORGE B. C. HARRIS, M.D., Assistant in Radiology.
ERNEST M. HENKEN, M.D., Assistant in Radiology.
MIRLE A. KELLETT, M.D., Assistant in Radiology.
ALEXANDER S. MACMILLAN, JR., M.D., Assistant in Radiology.
RICHARD G. O'BRIEN, M.D., Assistant in Radiology.
ALPHONSE J. B. PALUBINSKAS, M.D., Assistant in Radiology.
HELEN M. ROSS, M.D., Assistant in Radiology.
PAUL M. G. ST. AUBIN, M.D., Assistant in Radiology.
EDWARD W. WEBSTER, PH.D., Assistant in Radiology.
HAU MING KWAN, M.D., Research Fellow in Radiology.
CONWAY J. DON, M.B., CH.B., Teaching Fellow in Radiology.
WALTER FROMMHOLD, M.D., Teaching Fellow in Radiology.
LAURENCE B. LEINBACH, M.D., Teaching Fellow in Radiology.
FLEMING McCONNELL, M.D., Teaching Fellow in Radiology.
JAMES A. PETERSON, M.D., Teaching Fellow in Radiology.
CHIU-CHEN WANG, M.D., Teaching Fellow in Radiology.

REQUIRED COURSE

Third Year.—During the third year the following instruction will be offered: (*a*) five general lectures to the entire class on the heart, the lungs, the gastro-intestinal tract, pediatric X-ray and irradiation therapy, respectively; (*b*) seven clinical exercises in each trimester for the third of the class taking medicine, for the purpose of correlating clinical and roentgenological findings in major types of examina-

MEDICAL SCHOOL

tions; (c) exercises during each trimester for the third of the class taking surgery, involving observation and discussion of X-ray findings on surgical cases under study.

FOURTH YEAR ELECTIVE COURSE

Radiology. Drs. DEALY, P.B.B.H., ROBBINS, M.G.H., RITVO, B.C.H., FLEISCHNER, B.I.H., NEUHAUSER, C.M.C., MARKS, N.E.D.H., SCHATZKI, Mt. A.H., and BUSHUEFF, W.R.V.A.H.

Pediatrics

ALLAN M. BUTLER, M.D., Professor of Pediatrics and Head of the Department at the Massachusetts General Hospital.

CHARLES A. JANEWAY, M.D., Thomas Morgan Rotch Professor of Pediatrics and Head of the Department at the Children's Hospital (on leave of absence August 1, 1956 through January 31, 1957).

LOUIS K. DIAMOND, M.D., Associate Professor of Pediatrics at the Children's Hospital.

CLEMENT A. SMITH, M.D., A.M. (hon.), Associate Professor of Pediatrics at the Boston Lying-in Hospital and Chairman of the Executive Committee of the Departments of Pediatrics.

NATHAN B. TALBOT, M.D., Associate Professor of Pediatrics at the Massachusetts General Hospital.

RANDOLPH K. BYERS, M.D., Assistant Clinical Professor of Pediatrics.

STEWART H. CLIFFORD, M.D., Assistant Clinical Professor of Pediatrics.

JOHN D. CRAWFORD, M.D., Assistant Professor of Pediatrics.
JOHN A. V. DAVIES, M.D., Assistant Clinical Professor of Pediatrics.

R. CANNON ELEY, M.D., Assistant Clinical Professor of Pediatrics.

BENEDICT F. MASSELL, M.D., Assistant Clinical Professor of Pediatrics.

JACK METCOFF, M.D., M.P.H., Assistant Professor of Pediatrics (resigned August 31, 1956).

HARVARD UNIVERSITY

ALEXANDER S. NADAS, M.D., Assistant Clinical Professor of Pediatrics (leave of absence from September 1, 1956 through June 30, 1957).

RALPH A. ROSS, M.D., Assistant Clinical Professor of Pediatrics.

HARRY SHWACHMAN, M.D., Assistant Professor of Pediatrics at the Children's Hospital.

J. ROSWELL GALLAGHER, M.D., Lecturer on Pediatrics.

FRED H. ALLEN, JR., M.D., Clinical Associate in Pediatrics.

WILLIAM BERENBERG, M.D., Clinical Associate in Pediatrics.

FREDERIC M. BLODGETT, M.D., Associate in Pediatrics.

CHARLES D. COOK, M.D., Associate in Pediatrics.

JOHN F. CRIGLER, JR., M.D., Associate in Pediatrics.

DAVID GITLIN, M.D., Associate in Pediatrics.

ROBERT SCHWARTZ, M.D., Associate in Pediatrics.

SYDNEY S. GELLIS, M.D., Lecturer on Pediatrics.

LOUIS WEINSTEIN, PH.D., M.D., Lecturer on Infectious Diseases.

IRENA ANTONOWICZ, M.S., Research Associate in Pediatrics (resigned August 15, 1956).

OLGA IMERSLUND, M.D., Research Associate in Pediatrics (appointment expired March 31, 1957).

A. RICHARDSON JONES, M.B., CH.B., Research Associate in Pediatrics.

SIDNEY KIBRICK, PH.D., M.D., Research Associate in Pediatrics.

EDITH MEYER (TAYLOR), PH.D., Research Associate in Pediatrics.

OLGA E. ALLERS, M.D., Instructor in Pediatrics.

THOMAS B. BRAZELTON, M.D., Instructor in Pediatrics.

JOHN K. BRINES, M.D., Instructor in Pediatrics.

LEO B. BURGIN, M.D., Instructor in Pediatrics.

RALPH W. DAFFINEE, M.D., Instructor in Pediatrics.

DOUGLAS T. DAVIDSON, JR., M.D., Instructor in Pediatrics.

WILLIAM A. DICKSON, M.D., Instructor in Pediatrics.

JAMES E. DRORBAUGH, M.D., Instructor in Pediatrics.

EDWARD C. DYER, M.D., Instructor in Pediatrics.

ALBERT A. FRANK, M.D., Instructor in Pediatrics.

ELIZABETH G. FRENCH, M.D., Instructor in Pediatrics.

HENRY E. GALLUP, M.D., Instructor in Pediatrics.

MEDICAL SCHOOL

- ROBERT N. GANZ, M.D., Instructor in Pediatrics.
ROBERT J. HAGGERTY, M.D., Instructor in Pediatrics.
FELIX P. HEALD, JR., M.D., Instructor in Pediatrics.
ALLEN M. HILL, M.D., Instructor in Pediatrics.
JOHN P. HUBBELL, JR., M.D., Instructor in Pediatrics.
DONALD H. JOLLY, M.D., C.M., Instructor in Pediatrics.
WILLIAM F. KETCHUM, M.D., Instructor in Pediatrics and Assistant to the Dean of the Faculty of Medicine (resigned August 11, 1956).
CESARE T. LOMBROSO, M.D., Instructor in Pediatrics.
ROBERT P. MASLAND, JR., M.D., Instructor in Pediatrics.
FRANCIS C. McDONALD, M.D., Instructor in Pediatrics.
DOROTHEA M. MOORE, M.D., Instructor in Pediatrics.
ROBERT T. MOULTON, M.D., Instructor in Pediatrics.
HARRY L. MUELLER, M.D., Instructor in Pediatrics.
PATRICK A. ONGLEY, M.B., CH.B., Instructor in Pediatrics.
RICHMOND S. PAINE, M.D., Instructor in Pediatrics.
MURRAY E. PENDLETON, M.D., Instructor in Pediatrics.
WILLIAM PFEFFER, JR., M.D., Instructor in Pediatrics.
GERTRUD C. REYERSBACH, M.D., Instructor in Pediatrics.
ABRAHAM M. RUDOLPH, M.D., Instructor in Pediatrics.
KENNETH F. SANDS, M.D., Instructor in Pediatrics.
ROBERT T. SCEERY, M.D., Instructor in Pediatrics.
EDWARD M. SEARS, M.D., Instructor in Pediatrics.
ABRAHAM S. SMALL, M.D., Instructor in Pediatrics.
LENDON SNEDEKER, M.D., M.P.H., Instructor in Pediatrics.
RICHARD C. TEFFT, JR., M.D., Instructor in Pediatrics.
RUDOLF TOCH, M.D., Instructor in Pediatrics.
WILLIAM J. TURTLE, M.D., Instructor in Pediatrics.
JOHN W. G. TUTHILL, M.D., Instructor in Pediatrics.
WILLIAM D. WINTER, JR., M.D., Instructor in Pediatrics.
ELEONORE C. ZAUDY, M.D., Instructor in Pediatrics.
IRVING W. BAILIT, M.D., Assistant in Pediatrics.
LEONARD B. BELLIN, M.D., Assistant in Pediatrics.
CHARLOTTE E. BOCK (BELINOWICZ), M.D., Assistant in Pediatrics.
ALBERT COHEN, M.D., Assistant in Pediatrics.

HARVARD UNIVERSITY

- GEORGE T. CRITZ, M.D., Assistant in Pediatrics.
KELLEY K. DAVIS, M.D., Assistant in Pediatrics.
RICHARD R. DOOLEY, M.D., Assistant in Pediatrics.
WILLIAM R. DORSEY, M.D., C.M., Assistant in Pediatrics.
LEROY L. ELDREDGE, JR., M.D., Assistant in Pediatrics.
LAWRENCE J. ESSEMBER, M.D., Assistant in Pediatrics.
STEPHEN M. FRAWLEY, M.D., Assistant in Pediatrics.
SIDNEY GREEN, M.D., Assistant in Pediatrics.
ELIZABETH A. GREGORY, M.D., Assistant in Pediatrics.
SPRAGUE W. HAZARD, M.D., Assistant in Pediatrics.
MAURICE N. KAY, M.D., Assistant in Pediatrics.
RICHARD B. KEARSLEY, M.D., Assistant in Pediatrics.
LUCAS L. KULCZYCKI, M.B., CH.B., Assistant in Pediatrics.
ALEXANDER S. MACDONALD, JR., M.D., Assistant in Pediatrics.
JOSEPH J. McGOVERN, M.D., Assistant in Pediatrics.
DONALD E. MCLEAN, M.D., Assistant in Pediatrics.
ROBERT J. ORME, M.D., Assistant in Pediatrics.
JOSEPH OSBORNE, M.D., Assistant in Pediatrics.
JULIAN L. PEARLMAN, M.D., Assistant in Pediatrics.
THOMAS C. PEEBLES, M.D., Assistant in Pediatrics.
HOWARD J. POTTER, M.D., Assistant in Pediatrics.
JOHN S. ROBEY, M.D., Assistant in Pediatrics.
SUJOY B. ROY, M.B., CH.B., Assistant in Pediatrics.
ARTHUR J. SALISBURY, M.D., Assistant in Pediatrics.
GERALD B. SHATTUCK, M.D., Assistant in Pediatrics.
JOHN A. SPARGO, M.D., Assistant in Pediatrics.
GEORGE H. TAFT, M.D., Assistant in Pediatrics.
MARY L. TERRY, A.B., Assistant in Pediatrics.
WILHELMINA M. VANDYKE, M.D., Assistant in Pediatrics.
JACOB WALLACE, M.D., Assistant in Pediatrics.
HAROLD J. WHEELER, M.D., Assistant in Pediatrics.
ELIOT YOUNG, M.D., Assistant in Pediatrics.
JOHN H. ARNOLD, M.D., Research Fellow in Pediatrics.
MARY L. B. ARNOLD, M.D., Research Fellow in Pediatrics.
GLEN G. CAYLER, M.D., Research Fellow in Pediatrics.

MEDICAL SCHOOL

ALEXANDER N. DRESCHER, M.D., Research Fellow in Pediatrics.

FRANCIS X. FELLERS, M.D., Research Fellow in Pediatrics.

DONALD J. FERNBACH, M.D., Research Fellow in Pediatrics.

LOUIS FRIEDLANDER, M.B.,CH.B., Milton Research Fellow in Pediatrics.

DONALD C. FYLER, M.D., Research Fellow in Pediatrics.

PARK S. GERALD, M.D., Research Fellow in Pediatrics.

BERNARD GRENIER, Equiv. to M.D., Research Fellow in Pediatrics
(appointment expired August 31, 1956).

PAUL A. M. GROSS, M.D., Research Fellow in Pediatrics.

ANNA HAUCK, M.D., Research Fellow in Pediatrics.

PER J. HELLIESEN, Equiv. to M.D., Research Fellow in Pediatrics.

DONALD A. HILLMAN, M.D.,C.M., Research Fellow in Pediatrics.

WALTER H. HITZIG, M.D., Research Fellow in Pediatrics (re-signed September 30, 1956).

ALAN L. KAITZ, M.D., Research Fellow in Pediatrics.

SAMUEL L. KATZ, Research Fellow in Pediatrics.

ZWI LARON, M.D., Research Fellow in Pediatrics.

FRANK B. MAGILL, M.D., Research Fellow in Pediatrics.

GEORGE A. MARTNER, M.D., Research Fellow in Pediatrics (appointment expired August 31, 1956).

FLORENCE E. MAYER, M.D., Research Fellow in Pediatrics.

DONALD N. MEDEARIS, JR., M.D., Research Fellow in Pediatrics.

OLCAY NEYZI, M.D., Research Fellow in Pediatrics.

MILTON H. PAUL, M.D., Research Fellow in Pediatrics.

FREDERICK S. PORTER, JR., M.D., Research Fellow in Pediatrics.

ALISTAIR G. C. RENWICK, M.B.,CH.B., Frank Knox Memorial Fellow and Research Fellow in Pediatrics.

HERMAN W. SPATER, M.D., Research Fellow in Pediatrics.

CHARLES C. STAMEY, M.D., Research Fellow in Pediatrics.

SAMUEL L. STANCER, M.D., Research Fellow in Pediatrics.

GERALD J. SUTIN, M.D., Research Fellow in Pediatrics (appointment expired December 31, 1956).

PETER A. M. AULD, M.D.,C.M., Teaching Fellow in Pediatrics.

ROBERT B. BERG, M.D., Teaching Fellow in Pediatrics.

ROBERT D. BREER, M.D., Teaching Fellow in Pediatrics.

HARVARD UNIVERSITY

- EARL J. BREWER, JR., M.D., Teaching Fellow in Pediatrics.
WILLIAM R. BUCHANAN, JR., M.D., Teaching Fellow in Pediatrics.
SYLVIA A. DAVIES, M.D., Teaching Fellow in Pediatrics.
ALAN H. FINLEY, M.D., C.M., Teaching Fellow in Pediatrics.
THOMAS E. FROTHINGHAM, M.D., Teaching Fellow in Pediatrics.
WARREN G. GUNTHEROTH, M.D., Teaching Fellow in Pediatrics
(appointment expired December 31, 1956).
ELIZABETH S. HILLMAN, M.D., Teaching Fellow in Pediatrics.
ROSEMARY A. VAN'T HOFF, M.B., Ch.B., Teaching Fellow in Pediatrics.
THOMAS T. S. INGRAM, M.B., Ch.B., Teaching Fellow in Pediatrics
(appointment expired February 28, 1957).
JOHN A. KNAPP, M.D., Teaching Fellow in Pediatrics.
MARION C. MCKEE, M.D., Teaching Fellow in Pediatrics.
WILLIAM T. MCLEAN, JR., M.D., Teaching Fellow in Pediatrics
(appointment expired August 31, 1956).
RICHARD H. MEADE, 3RD., M.D., Teaching Fellow in Pediatrics.
JAN-HENRIK PROBST, M.D., Teaching Fellow in Pediatrics.
ROBERT H. RICHIE, M.D., Teaching Fellow in Pediatrics.
CHARLES A. RIGG, M.B., Ch.B., Teaching Fellow in Pediatrics.
ARNOLD J. RUDOLPH, M.B., Ch.B., Teaching Fellow in Pediatrics.
DAVID B. SHURTLEFF, M.D., Teaching Fellow in Pediatrics.
PATRICIA M. SMITH, M.D., Teaching Fellow in Pediatrics.
PAUL M. VEASEY, M.D., Teaching Fellow in Pediatrics.
JOHN A. VECCHIOLLA, M.D., Teaching Fellow in Pediatrics.
JOHN H. WHITCOMB, M.D., Teaching Fellow in Pediatrics
(appointment expired December 31, 1956).
THOMAS J. WHITFIELD, M.D., Teaching Fellow in Pediatrics.
SUMNER J. YAFFE, M.D., Teaching Fellow in Pediatrics (resigned
August 31, 1956).
SEYMOUR ZOGER, M.D., Teaching Fellow in Pediatrics.

Affiliated:

- ERICH LINDEMANN, PH.D., M.D., Professor of Psychiatry.
EVAN CALKINS, M.D., Associate in Medicine.
ARTHUR J. LINENTHAL, M.D., Clinical Associate in Medicine.

MEDICAL SCHOOL

ROBERT T. LONG, M.D., Research Associate in Psychiatry.
GASTON E. BLOM, M.D., Instructor in Psychiatry.
PHILIP R. DODGE, M.D., Instructor in Neurology.
ALLAN L. FRIEDLICH, JR., M.D., Instructor in Medicine.
JOHN H. LAMONT, M.D., Instructor in Psychiatry.
JANET W. McARTHUR, M.D., Instructor in Medicine.
WARREN W. POINT, 3RD., M.D., Assistant in Medicine.
MARY L. L. SCHOLL, M.D., Research Fellow in Neurology.

REQUIRED COURSES

PEDIATRICS A. *Second Year*.—Nine whole class exercises. Lectures are given during the second year to familiarize the students with the study of children's diseases before they come into contact with patients. In this series are discussed the physiology of nutrition and the principles of infant feeding, the anatomical and physiological differences between children and adults, a consideration of the normal growth and development of children and the physiology and pathology of extracellular body fluids.

PEDIATRICS B. *Third Year*.—1. Eight whole class exercises are given during the first half-year in which the more important aspects of the diseases of childhood are presented. Three whole class lectures, on special subjects, are assigned to pediatrics by the Department of Medicine.

2. Section teaching: Each section, during its assignment to the Children's Hospital for thirty-two days, receives correlated instruction in pediatrics, surgery, and orthopaedic surgery. Each group of three students is assigned to the out-patient department and wards for fifteen periods of three hours each, where under the supervision of their instructor they receive actual experience in history-taking, physical examination and the care of infants and children. Conferences and clinics on important aspects of pediatrics form part of the course. One afternoon a week is devoted to demonstrations and practice in the care of the normal infant and child and five other afternoon exercises are devoted to infectious diseases, chiefly at the Haynes Memorial Hospital.

PEDIATRICS C. *Fourth Year*.—The fourth year work consists of a month of instruction, either at the Children's Medical Service of the Massachusetts General Hospital or at the Children's and Infants' Hos-

HARVARD UNIVERSITY

pitals. The students act as clinical clerks on the wards and receive instruction in infectious diseases at the Haynes Memorial Hospital once a week.

	SECOND YEAR	HOURS
Clinical lectures. C.M.C. <i>Second half-year.</i>		9
THIRD YEAR		
Clinical lectures. C.M.C. <i>First half-year.</i>		8
Section teaching. C.M.C. <i>Throughout the year</i>		63
FOURTH YEAR		
C1. Clinical Clerkship. Dr. JANEWAY and Associates. C.M.C.		144
C2. Clinical Clerkship. Dr. BUTLER and Associates. M.G.H.		144

FOURTH YEAR ELECTIVE COURSES

3. Advanced Pediatrics. Dr. JANEWAY and Associates. C.M.C. and B.L.I.H. Whole course, all day. Opportunities are offered in General Pediatrics, Neoplastic Diseases, Metabolic Research, Adolescent Medicine, Neonatal Pediatrics, Neurology and Cardiology.
4. Advanced Pediatrics. Dr. BUTLER and Associates. M.G.H. Whole course, all day. Opportunities are offered in General Pediatrics, Endocrinology and Metabolic Research, Neurology and Pediatric Family Practice.
5. Child Psychiatry. Dr. BLOM and Associates. M.G.H. Whole course, all day (same course as Psychiatry 7).
6. Infectious Diseases. Dr. WEINSTEIN. H.M.H. Whole course, all day.

Obstetrics

DUNCAN E. REID, M.D., William Lambert Richardson Professor of Obstetrics and Head of the Department.

THOMAS R. GOETHALS, M.D., Clinical Professor of Obstetrics.

BENJAMIN TENNEY, Jr., M.D., Clinical Professor of Obstetrics.

FRANKLIN F. SNYDER, M.D., A.M. (hon.), Associate Professor of Anatomy and Obstetrics.

MEDICAL SCHOOL

- HAROLD H. ROSENFIELD, M.D., Assistant Clinical Professor of Obstetrics.
- DANIEL ABRAMSON, M.D., Clinical Associate in Obstetrics.
- SEYMOUR L. ROMNEY, M.D., Associate in Obstetrics at the Boston Lying-in Hospital.
- CRAIG S. HOUSTON, M.D., Lecturer on Obstetrics.
- JOHN A. MACLAREN, PH.D., Research Associate in Obstetrics.
- CHARLES C. ROBY, PH.D., Research Associate in Obstetrics.
- ROBERT H. BARKER, M.D., Instructor in Obstetrics.
- MARION F. EADES, M.D., Instructor in Obstetrics.
- A. GORDON GAULD, M.D., Instructor in Gynecology and in Obstetrics.
- LUKE GILLESPIE, M.D., Instructor in Gynecology and in Obstetrics.
- RICHARD HENRY GROGAN, M.D., Instructor in Gynecology and in Obstetrics.
- CRAWFORD H. HINMAN, M.D., Instructor in Obstetrics.
- JOHN F. JEWETT, M.D., Instructor in Obstetrics.
- WALTER S. JONES, M.D., Instructor in Obstetrics.
- ALAN B. LITTLE, M.D.,C.M., Instructor in Obstetrics.
- JOHN L. NEWELL, M.D., Instructor in Obstetrics.
- FRANCIS ROUILLARD, M.D., Instructor in Obstetrics.
- CHARLES P. SHELDON, M.D., Instructor in Obstetrics.
- JUDSON A. SMITH, M.D., Instructor in Obstetrics.
- HERBERT E. BROOKS, JR., M.D., Assistant in Obstetrics.
- BERTRAM H. BUXTON, JR., M.D., Assistant in Obstetrics.
- CHARLES L. EASTERDAY, M.D., Assistant in Gynecology and in Obstetrics.
- ARTHUR C. GORBACH, Jr., M.D., Assistant in Obstetrics.
- DANIEL H. HINDMAN, M.D., Assistant in Obstetrics.
- RUBY G. JACKSON, M.D.,C.M., Assistant in Obstetrics.
- GEORGE E. LA CROIX, M.D., Assistant in Obstetrics.
- FRANCIS R. LANE, M.D., Assistant in Obstetrics.
- HERBERT T. LEIGHTON, M.D., Assistant in Obstetrics.
- WILLIAM J. MACDONALD, M.D., Assistant in Obstetrics.

HARVARD UNIVERSITY

- WILLIAM J. MULLIGAN, M.D., Assistant in Gynecology and in Obstetrics.
- CHARLES POTTER, M.D., Assistant in Obstetrics.
- WILLIAM A. REID, M.D., Assistant in Obstetrics.
- FREDERIC W. RIPLEY, JR., M.D., Assistant in Obstetrics.
- SEYMOUR SACKS, M.D., Assistant in Obstetrics.
- ARTHUR J. SCHRAMM, M.D., Assistant in Obstetrics.
- WESTON F. SEWALL, M.D., Assistant in Obstetrics.
- LLOYD I. SEXTON, M.D., Assistant in Obstetrics.
- SIDNEY STAHLER, M.D., Assistant in Obstetrics.
- BARTLETT H. STONE, M.D., Assistant in Obstetrics and in Gynecology.
- ARTHUR W. TUCKER, JR., M.D., Assistant in Gynecology and in Obstetrics.
- JOHN TURNER, 2ND., M.D., Assistant in Obstetrics.
- ALBERT E. WEINER, M.D., Assistant in Obstetrics.
- WILLIAM F. FERGUSON, M.D., Teaching Fellow in Obstetrics.
- HOWARD N. JACOBSON, M.D., Teaching Fellow in Obstetrics.
- JOHN D. MCINTYRE, M.D., Teaching Fellow in Obstetrics (April 1, 1957 through June 30, 1957).

Affiliated:

- ARTHUR T. HERTIG, M.D., Shattuck Professor of Pathological Anatomy.
- SAMUEL B. KIRKWOOD, M.D., S.D.(hon.), Clinical Professor of Maternal Health, S.P.H.
- CLEMENT A. SMITH, M.D., Associate Professor of Pediatrics at the Boston Lying-in Hospital.
- STEWART H. CLIFFORD, M.D., Assistant Clinical Professor of Pediatrics.
- CLAUDE A. VILLEE, JR., PH.D., Assistant Professor of Biological Chemistry.
- DONALD G. MCKAY, M.D., Associate in Pathology at the Boston Lying-in Hospital and the Free Hospital for Women.
- JAMES METCALFE, M.D., Associate in Medicine.

MEDICAL SCHOOL

REQUIRED COURSES

Second Year. — Twelve lectures are given in conjunction with the Department of Gynecology in the basic biology of human reproduction and conditions peculiar to the female.

Third Year. — Twenty-four didactic lectures are given in conjunction with the Department of Gynecology during the course of the year. One month of the regular third-year curriculum is devoted to a course in Obstetrics and Gynecology. Students are assigned to the gynecologic out-patient clinics of the Massachusetts General Hospital and the Free Hospital for Women, and to obstetrics at the Boston Lying-in Hospital and the Boston City Hospital. In the latter two clinics each student has an opportunity to study the care of pregnancy. Instruction is given in the obstetric examination. Under special instructors considerable time is devoted to conferences on normal obstetrics and to observation of patients in labor and during delivery. The student participates in seminars throughout the month in obstetrics and gynecology and related fields.

Fourth Year. — This course takes one month of the regular fourth year curriculum and consists of a combined service in obstetrics and gynecology. Two weeks are given to gynecology at the Free Hospital for Women and the gynecologic services at the Massachusetts General Hospital and the Boston City Hospital. The other half of the course is concerned primarily with obstetrics which is given at the Boston Lying-in Hospital, the Providence Lying-in Hospital and the Boston City Hospital. During this period the student lives at the hospital and devotes his time chiefly to attendance to cases in the hospital. In the course of his work the student is called to assist at operations and to make ward visits with the visiting physician on duty. The student conducts the convalescent care of the cases delivered during his resident service and receives instruction in the general management of normal and abnormal labor and in the care of the young infant. During this time each student is assigned to normal cases in the hospital to follow through labor, delivery and the puerperium. The student takes histories and examines all patients who are admitted to the hospital with medical conditions complicating the pregnant state. The remainder of the time is devoted to the care and problems of the newborn under the supervision of the attending pediatrician. The student is given a demonstration of operative obstetrics during

HARVARD UNIVERSITY

resident service, and each student has an opportunity to perform the different operations on the manikin. Student conferences and instruction in obstetric pathology are an important part of the course. Except for conferences throughout the month at the Boston Lying-in Hospital, the student's time is devoted equally between obstetrics and gynecology.

	SECOND YEAR	HOURS
Lectures on Normal Obstetrics. Dr. REID and Associates.		
B.L.I.H. <i>Three times a week for four weeks.</i>	12	
	THIRD YEAR	
Lectures on Abnormal Obstetrics. Dr. REID and Associates.		
B.L.I.H.	24	
Practical instruction in Clinical Obstetrics. <i>Throughout the year in seminars.</i>	104	
	FOURTH YEAR	
C1. General Obstetrics. Dr. REID and Associates. B.L.I.H.		
Practical instruction, in sections, in Clinical Obstetrics, including care of the newborn. <i>One month.</i>	144	

Preventive Medicine

DAVID D. RUTSTEIN, M.D., Professor of Preventive Medicine and Head of the Department.

DEAN A. CLARK, M.D., Clinical Professor of Preventive Medicine.

HARRIET L. HARDY, M.D., Assistant Clinical Professor of Preventive Medicine.

CECIL G. SHEPS, M.D., M.P.H., Lecturer on Preventive Medicine.

JOSEPH STOKES, 3RD., M.D., Associate in Preventive Medicine.

ESTELLE F. INGENITO, PH.D., Research Associate in Preventive Medicine.

ARTHUR M. DAVIES, M.B., CH.B., Research Fellow in Preventive Medicine.

MARTHE GAUTIER, Equiv. to M.D., Research Fellow in Preventive Medicine (appointment expired August 31, 1956).

JOHN R. GOLDSMITH, M.D., Research Fellow in Preventive Medicine.

MEDICAL SCHOOL

WILLIAM B. KANNEL, M.D., Research Fellow in Preventive Medicine.

MARCELLO MARTINELLI, M.D., Research Fellow in Preventive Medicine.

HUU-TRUNG PHAM, M.D., Research Fellow in Preventive Medicine.

RICHARD UMANSKY, M.D., Research Fellow in Preventive Medicine.

Affiliated:

CONRAD WESSELHOEFT, M.D., Visiting Lecturer on Infectious Diseases, S.P.H.

JOHANNES IPSEN, JR., M.D., M.P.H., Associate Professor of Public Health, S.P.H.

JANE WORCESTER, DR.P.H., Associate Professor of Biostatistics, S.P.H.

MINDEL C. SHEPS, M.D., M.P.H., Research Associate in Biostatistics, S.P.H.

The preventive aspects of medicine and its various specialties are taught in all departments of the Medical School, and arrangements are made for the integration of such teaching with the more formal teaching in the required course in preventive medicine. An effort is made to stress those aspects of preventive medicine which concern the practicing physician, rather than those which concern the public health officer.

REQUIRED COURSES

PREVENTIVE MEDICINE A. *Third Year.*—The course in preventive medicine consists of clinics, lectures and symposia. The preventive aspects of clinical medicine are correlated with information in the fields of epidemiology, biostatistics, social medicine, occupational medicine, medical economics and environmental sanitation.

PREVENTIVE MEDICINE C. *Fourth Year.*—A Health Resources Survey, evaluating community facilities for the total medical care of specified patients, is required of all students.

HARVARD UNIVERSITY

THIRD YEAR

HOURS

Clinics, symposia and lectures. Dr. RUTSTEIN and Associates, in cooperation with representatives of other departments. 85

FOURTH YEAR

Health Resources Survey and individual student conference. 50

FOURTH YEAR ELECTIVE COURSES

1. Advanced work in Preventive Medicine and Epidemiology. Dr. RUTSTEIN and Associates. This includes opportunity for one month's work in the Division of Social Medicine, Montefiore Hospital, New York City.
2. Occupational Medicine. Dr. HARDY and Associates. M.G.H. and M.I.T. Whole course, all day. Limited to one student a month.

Surgery

EDWARD D. CHURCHILL, M.D., DR. (hon.), S.D. (hon.), LL.D., John Homans Professor of Surgery and Head of the Department at the Massachusetts General Hospital.

J. ENGLEBERT DUNPHY, M.D., Professor of Surgery and Head of the Department at the Boston City Hospital.

JACOB FINE, M.D., Professor of Surgery at the Beth Israel Hospital, and Head of the Department at the Beth Israel Hospital.

ROBERT E. GROSS, M.D., S.D. (hon.), William E. Ladd Professor of Child Surgery and Head of the Department at the Children's Hospital.

FRANCIS D. MOORE, M.D., Moseley Professor of Surgery and Head of the Department at the Peter Bent Brigham Hospital.

HENRY K. BEECHER, M.D., Henry Isaiah Dorr Professor of Research in Anaesthesia.

J. HARTWELL HARRISON, M.D., Clinical Professor of Genito-Urinary Surgery.

THOMAS H. LANMAN, M.D., Clinical Professor of Surgery.

CHARLES C. LUND, M.D., Clinical Professor of Surgery.

LELAND S. McKITTRICK, M.D., Clinical Professor of Surgery.

FRANCIS C. NEWTON, M.D., Clinical Professor of Surgery.

MEDICAL SCHOOL

RICHARD WARREN, M.D., Clinical Professor of Surgery.

JAMES C. WHITE, M.D., Professor of Surgery at the Massachusetts General Hospital.

OLIVER COPE, M.D., DR. (hon.), Associate Professor of Surgery.

DWIGHT E. HARKEN, M.D., Associate Clinical Professor of Surgery.

FRANC D. INGRAHAM, M.D., Associate Professor of Surgery at the Children's Hospital.

WYLAND F. LEADBETTER, M.D., Associate Clinical Professor of Surgery.

DONALD D. MATSON, M.D., Associate Clinical Professor of Surgery.

RICHARD H. SWEET, M.D., Associate Clinical Professor of Surgery.

WILLIAM H. SWEET, M.D., Associate Clinical Professor of Surgery.

LEROY D. VANDAM, M.D., Associate Clinical Professor of Anesthesia.

CARL W. WALTER, M.D., Associate Clinical Professor of Surgery.

EDWARD B. BENEDICT, M.D., Assistant Clinical Professor of Surgery.

JOHN P. BUNKER, M.D., Assistant Clinical Professor of Anesthesia.

HOWARD A. FRANK, M.D., Assistant Professor of Surgery at the Beth Israel Hospital and Tutor in Surgery.

EDWARD HAMLIN, JR, M.D., Assistant Clinical Professor of Surgery.

DAVID M. HUME, M.D., Assistant Professor of Surgery (resigned August 31, 1956). L

ROBERT R. LINTON, M.D., Assistant Clinical Professor of Surgery.

DONALD W. MACCOLLUM, M.D., Assistant Clinical Professor of Surgery.

THOMAS B. QUIGLEY, M.D., Assistant Clinical Professor of Surgery.

ROBERT M. SMITH, M.D., Assistant Clinical Professor of Anesthesia.

HARVARD UNIVERSITY

GRANTLEY W. TAYLOR, M.D., Assistant Clinical Professor of Surgery.

AUGUSTUS THORNDIKE, M.D., Lecturer on Surgery.

THORKILD W. ANDERSEN, M.D., Clinical Associate in Anaesthesia.

MARSHALL K. BARTLETT, M.D., Clinical Associate in Surgery.

EDGAR A. BERING, JR., M.D., Clinical Associate in Surgery.

THOMAS W. BOTSFORD, M.D., Clinical Associate in Surgery.

WILLIAM R. BREWSTER, JR., M.D., Associate in Anaesthesia at the Massachusetts General Hospital.

JOHN R. BROOKS, M.D., Clinical Associate in Surgery.

BRADFORD CANNON, M.D., Clinical Associate in Surgery.

CHILTON CRANE, M.D., Clinical Associate in Surgery.

JOACHIM S. GRAVENSTEIN, M.D., Clinical Associate in Anaesthesia (resigned August 30, 1956).

EDWARD D. FRANK, M.D., Associate in Surgery.

EDWARD A. GAENSLER, M.D., Clinical Associate in Surgery.

SAMUEL GILMAN, M.D., Clinical Associate in Anaesthesia.

LOUIS HERMANSON, M.D., Clinical Associate in Surgery.

BERT B. HERSHENSON, M.D., Clinical Associate in Anaesthesia (died October 5, 1956).

JOHN M. HUNTER, M.B., CH.B., Clinical Associate in Surgery.

SYLVESTER B. KELLEY, M.D., Clinical Associate in Surgery.

LUTHER A. LONGINO, M.D., Clinical Associate in Surgery.

WILLIAM V. McDERMOTT, JR., M.D., Clinical Associate in Surgery.

JOSEPH E. MURRAY, M.D., Clinical Associate in Surgery.

GEORGE L. NARDI, M.D., Clinical Associate in Surgery.

HARLAN F. NEWTON, M.D., Clinical Associate in Surgery (died October 23, 1956).

MELVIN P. OSBORNE, M.D., Clinical Associate in Surgery.

GEORGE C. PRATHER, M.D., Clinical Associate in Surgery.

ALEXANDER M. RUTENBURG, M.D., Associate in Surgery.

J. GORDON SCANNELL, M.D., Clinical Associate in Surgery.

DONALD P. TODD, M.D., Clinical Associate in Anesthesia.

WILLIAM R. WADDELL, M.D., Clinical Associate in Surgery.

WALTER R. WEGNER, M.D., Clinical Associate in Surgery.

MEDICAL SCHOOL

- CLAUDE E. WELCH, M.D., Clinical Associate in Surgery.
- HENRY H. FAXON, M.D., Lecturer on Surgery.
- SØREN JØRGENSEN, M.D., Visiting Lecturer on Anaesthesia (appointment expired December 31, 1956).
- SIR ARTHUR PORRITT, M.C.H., F.R.C.S., Visiting Lecturer on Surgery (appointment from October 16, 1956 through November 15, 1956).
- C. LLOYD CLAFF, A.B., Research Associate in Surgery.
- SAUL I. COHEN, PH.D., Research Associate in Surgery.
- NORMAN I. GOLD, PH.D., Research Associate in Biological Chemistry in the Department of Surgery.
- JULIUS A. GOLDBARG, M.D., Research Associate in Surgery.
- DOROTHY H. HENNEMAN, M.D., Research Associate in Anaesthesia.
- MELVIN M. KETCHEL, Ph.D., Research Associate in Surgery.
- SELMA H. RUTENBURG, M.D., Research Associate in Surgery.
- GENE M. SMITH, PH.D., Research Associate in Anaesthesia.
- ALBERT H. SOLOWAY, Ph.D., Research Associate in Surgery.
- ARTHUR L. ABRAMS, M.D., Instructor in Anaesthesia.
- LOUIS BAKAY, M.D., Instructor in Surgery.
- HENRY T. BALLANTINE, JR., M.D., Instructor in Surgery.
- BENJAMIN A. BARNES, M.D., Instructor in Surgery.
- HENRIK H. BENDIXEN, M.D., Instructor in Anaesthesia.
- HARRISON BLACK, M.D., Instructor in Surgery.
- HATHORN P. BROWN, M.D., Instructor in Surgery.
- THOMAS K. BURNAP, M.D., Instructor in Anaesthesia.
- ROBERT C. COE, M.D., Instructor in Surgery (resigned July 31, 1956).
- GORDON A. DONALDSON, M.D., Instructor in Surgery.
- ALBERT J. FINCK, M.D., Instructor in Anaesthesia.
- EDWARD W. FRIEDMAN, M.D., Instructor in Surgery.
- F. THOMAS GEPHART, M.D., Instructor in Surgery.
- HERMES C. GRILLO, M.D., Instructor in Surgery.
- PHILLIPS HALLOWELL, M.D., Instructor in Anaesthesia.
- CARL S. HOAR, JR., M.D., Instructor in Surgery.

HARVARD UNIVERSITY

- ANDREW G. JESSIMAN, M.B., CH.B., Instructor in Surgery and
Henry E. Warren Fellow in Surgery.
- LEE G. KENDALL, M.D., Instructor in Surgery.
- WALTER S. KERR, JR., M.D., Instructor in Surgery.
- HENRY A. KONTOFF, M.D., Instructor in Surgery.
- SAMUEL LOWIS, M.D., Instructor in Surgery.
- SAUL M. MARCUS, M.D., Instructor in Surgery.
- JOHN B. McKITTRICK, M.D., Instructor in Surgery.
- S. RICHARD MUELLNER, M.D., Instructor in Surgery.
- LOUIS H. NASON, M.D., Instructor in Surgery.
- VICTOR A. POLITANO, M.D., Instructor in Surgery.
- WILLIAM C. QUINBY, JR., M.D., Instructor in Surgery.
- GEORGE S. RICHARDSON, M.D., Instructor in Surgery.
- HORATIO ROGERS, M.D., Instructor in Surgery.
- CHESTER B. ROSOFF, M.D., Instructor in Surgery.
- JOHN L. ROWBOTHAM, M.D., Instructor in Surgery.
- PAUL S. RUSSELL, JR., M.D., Instructor in Surgery.
- SAMUEL R. SCHUSTER, M.D., Instructor in Surgery.
- ARNOLD L. SEGEL, M.D., Instructor in Surgery.
- ROBERT S. SHAW, M.D., Instructor in Surgery.
- FRANK G. SHEDDAN, JR., M.D., Instructor in Surgery.
- NICHOLAS M. STAHL, M.D., Instructor in Surgery.
- GEORGE W. B. STARKEY, M.D., Instructor in Surgery.
- ARNOLD STARR, M.D., Instructor in Surgery.
- NAAMAN STEINBERG, M.D., Instructor in Surgery.
- HOWARD I. SUBY, M.D., Instructor in Surgery.
- HERBERT S. TALBOT, M.D., Instructor in Surgery.
- JAMES L. VANDERVEEN, M.D., Instructor in Anaesthesia.
- ELTON WATKINS, JR., M.D., Instructor in Surgery.
- MALVIN F. WHITE, D.M.D., M.D., Instructor in Surgery.
- GEORGE F. WILKINS, M.D., Instructor in Surgery.
- LORANDE M. WOODRUFF, M.D., Instructor in Surgery.
- RICHARD C. AUSTIN, M.D., Assistant in Surgery.
- GLENN E. BEHRINGER, M.D., Assistant in Surgery.
- HAROLD BENGLOFF, M.D., Assistant in Surgery.
- JESSE F. BROWN, M.D., Assistant in Anaesthesia.

MEDICAL SCHOOL

- CHARLES B. BURBANK, M.D., Assistant in Surgery.
JOHN W. CHAMBERLAIN, M.D., Assistant in Surgery.
ROBERT E. DESAUTELS, M.D., Assistant in Surgery.
CHESTER J. DEXTER, M.D., Assistant in Surgery.
WILLIAM F. FLYNN, M.D., Assistant in Surgery.
PHILIP S. FOISIE, M.D., Assistant in Surgery.
EDWARD T. GORDON, M.D., Assistant in Surgery.
PAUL F. GRYSKA, M.D., Assistant in Surgery.
EUGENE GURALNICK, M.D., Assistant in Surgery.
IRAD B. HARDY, JR., M.D., Assistant in Surgery.
HYMAN HERSHMAN, M.D., Assistant in Surgery.
EDWARD KAPLAN, M.D., Assistant in Surgery.
CHARLES A. LAMB, M.D., Assistant in Surgery.
FEUNG B. LEE, M.D., Assistant in Surgery.
ELIA LIPSCHITZ, M.B., CH.B., Assistant in Anaesthesia.
JOHN B. LLOYD, M.D., Assistant in Surgery.
CARROLL C. MILLER, M.D., Assistant in Surgery.
CHARLES G. MIXTER, JR., M.D., Assistant in Surgery.
ARTHUR E. OGDEN, M.D., Assistant in Anaesthesia.
W. BRADFORD PATTERSON, M.D., Assistant in Surgery.
ANNE W. PHILLIPS, M.D., Assistant in Surgery.
ANGELO G. ROCCO, M.D., Assistant in Anaesthesia.
GRANT V. RODKEY, M.D., Assistant in Surgery.
WILLIAM P. ROGERS, JR., M.D., Assistant in Surgery.
LEON ROSENFIELD, M.D., Assistant in Surgery.
SPIROS P. SARRIS, M.D., Assistant in Surgery.
BERNARD R. SEARS, M.D., Assistant in Surgery.
RICHARD I. SMITH, M.D., Assistant in Surgery.
ALBERT M. STARR, M.D., Assistant in Surgery.
PHILIP H. WALKER, M.D., Assistant in Surgery.
KENNETH J. WELCH, M.D., Assistant in Surgery.
FRANK C. WHEELOCK, JR., M.D., Assistant in Surgery.
STEWART A. WILBER, M.D., Assistant in Anaesthesia.
EARLE W. WILKINS, JR., M.D., Assistant in Surgery.
JOHN A. WILLIAMS, M.D., Assistant in Surgery.

HARVARD UNIVERSITY

- HOWARD J. BAGNALL, M.B.,CH.B., Research Fellow in Surgery
(appointment expired December 31, 1956).
- SVEN E. H. BELLMAN, M.D., Research Fellow in Surgery.
- KENNETH W. CARRINGTON, M.D., Research Fellow in Surgery.
- RAFAEL (MORALES) CASAS, M.D., Research Fellow in Surgery.
- HECTOR A. G. CASTELLANOS, M.D., Research Fellow in Surgery.
- RALPH M. CHRISTENSEN, M.D., Research Fellow in Surgery.
- MANUEL J. CORREIA-BRANCO, M.D., Research Fellow in Surgery.
- WILLIAM P. CORVERSE, M.D., Research Fellow in Surgery.
- PETER M. EJARQUE, M.D., Research Fellow in Surgery (resigned
August 31, 1956).
- FRED D. FOWLER, M.D., Research Fellow in Surgery.
- WILLIAM G. HAMMOND, M.D., Research Fellow in Surgery (re-
signed September 30, 1956).
- TIMOTHY S. HARRISON, M.D., Research Fellow in Surgery.
- ERIK H. C. HEIDENSLEBEN, M.D., Research Fellow in Surgery.
- GRAHAME F. T. W. HENSON, M.B.,CH.B., Research Fellow in
Surgery (appointment expired August 15, 1956).
- HANNA KLAUS, M.D., Research Fellow in Surgery.
- ANTHONY J. LEONSINS, M.D., Research Fellow in Surgery.
- MARTIN S. LITWIN, M.D., Research Fellow in Surgery.
- JOHN D. MCQUEEN, M.D., Research Fellow in Surgery.
- RICHARD J. MILLER, M.D., Research Fellow in Surgery (appoint-
ment expired December 31, 1956).
- TASSADDUK H. MOGHUL, M.B., Research Fellow in Surgery.
- KNUD H. OLESEN, M.D., Research Fellow in Surgery.
- FREDERICK G. PANICO, M.D., Research Fellow in Surgery.
- H. VICTOR PARKER, M.D., Research Fellow in Surgery.
- LOUIS N. PERNOKAS, M.D., Research Fellow in Surgery.
- ROBERT G. PONTIUS, M.D., Research Fellow in Surgery.
- KENDRICK A. PORTER, M.D., Research Fellow in Surgery.
- CARLOS RUBINI, M.D., Research Fellow in Surgery.
- ELENORE R. SADE, D.M.D., Research Fellow in Surgery.
- BAHIJ S. SALIBI, M.D., Research Fellow in Surgery (resigned
September 30, 1956).
- LESTER R. SAUVAGE, M.D., Research Fellow in Surgery.

MEDICAL SCHOOL

- JOHN A. SCHOLL, M.D., Research Fellow in Surgery.
WILLIAM C. SHOEMAKER, M.D., Research Fellow in Surgery.
FRANCIS G. SMIDDY, M.B.,CH.B., Research Fellow in Surgery.
VINCENT S. SY, M.D., Research Fellow in Surgery.
SIMON THIRY, M.D., Research Fellow in Surgery.
LEWIS P. THOMAS, M.B.,CH.B., Research Fellow in Surgery
(resigned October 31, 1956).
WENDELL B. THROWER, M.D., Research Fellow in Surgery.
WILLIAM F. WALKER, M.B.,CH.B., Research Fellow in Surgery.
WATTS, GEORGE T., M.B.,CH.B., Research Fellow in Surgery.
WILLIAM H. YAO, M.D., Research Fellow in Surgery (resigned
November 30, 1956).
ALEXANDRO ZACHARIAS (Abel), M.D., Research Fellow in Surgery.
AILEEN K. ADAMS, M.B.,CH.B., Research Fellow in Anaesthesia.
JOHN F. BURKE, M.D., Teaching Fellow in Surgery.
WALTER C. COTTER, M.D., Teaching Fellow in Surgery (appointment
expired December 31, 1956).
DAVID E. DAVIDOFF, M.D., Teaching Fellow in Surgery.
EDWARD B. GRAY, JR., M.D., Arthur Tracy Cabot Teaching Fel-
low in Surgery.
RICHARD HERINGER, M.D., Teaching Fellow in Surgery (appointment
expired September 30, 1956).
JOHN M. KINNEY, M.D., Teaching Fellow in Surgery.
SPYROS G. MACRIS, M.D., Teaching Fellow in Anaesthesia.
EDWARD A. MAHONEY, JR., M.D., Teaching Fellow in Surgery.
LESTER W. MARTIN, M.D., Teaching Fellow in Surgery.
JAMES D. McMURREY, M.D., Arthur Tracy Cabot Teaching Fel-
low in Surgery (appointment expired July 15, 1956).
FEDERICO MORA, M.D., Teaching Fellow in Surgery.
JOHN V. PIKULA, M.D., Teaching Fellow in Surgery.
ROBB H. RUTLEDGE, M.D., Teaching Fellow in Surgery.
JOHN SHILLITO, JR., M.D., Teaching Fellow in Surgery.

REQUIRED COURSES

Instruction will be given by amphitheatre clinics, lectures, and con-
ferences, together with section teaching in the wards and out-patient

HARVARD UNIVERSITY

departments of the hospitals and in the surgical research laboratories.

SURGERY A. *Second Year.*—The course is designed to correlate preclinical sciences with the basic principles underlying the surgical management of injury and disease. The Department of Surgery joins with the Department of Medicine in a series of exercises in physical diagnosis and laboratory medicine to offer unified instruction in case taking. Practical exercises are offered that introduce the student to basic surgical techniques.

SURGERY B. *Third Year.*—The course is conducted in the outpatient departments and wards of the hospitals affiliated with the School. The students are divided into three groups, each group in rotation being apportioned to one of the hospitals affiliated with the School for instruction in surgery over a sixty-four-day period. During this period they will study general surgery and urology at the hospital to which they are assigned, and will also receive instruction in gynecology at the Free Hospital for Women and the Massachusetts General Hospital and in laryngology at the Massachusetts Eye and Ear Infirmary. Instruction in the surgery of children is given during the pediatric section work at the Children's Hospital. Opportunity for experience in surgical operative techniques is offered in Voluntary Course 32 that may be taken in conjunction with section work.

SURGERY C. *Fourth Year.*—A series of not less than two months as clinical clerk in the surgical wards of the M.G.H., B.C.H., P.B.B.H., or B.I.H. is required of each student.

During the fourth year, students will be assigned to one of the departments of anaesthesia associated with the medical school. The time spent shall be sufficient to provide an introduction to the problems and possibilities of anaesthesia as a specialty of medicine. The student will acquire some knowledge of oxygen therapy, of pre- and post-operative anaesthetic care and will administer, under supervision, the commonly used anaesthetics to patients. Factors of importance in the support and resuscitation of unconscious persons will be emphasized. This experience is designed to lead to an understanding of problems associated with the safe management of individuals handicapped by pre-existing disease, by anaesthesia, and by surgery.

SECOND YEAR

Lectures and demonstrations on the fundamental aspects of clinical surgery and anaesthesia. Drs. CHURCHILL, BEECHER,

MEDICAL SCHOOL

HOURS

MOORE, and Associates. M.G.H. and P.B.B.H. <i>Second half-year.</i>	16
Section work, case taking, lectures and demonstrations on the physical diagnosis of surgical disease in conjunction with the Department of Medicine. M.G.H., B.C.H., P.B.B.H., and B.I.H. <i>Each student has twenty-four exercises.</i>	84

THIRD YEAR

Amphitheatre lectures. Drs. CHURCHILL, MOORE, and Associates. <i>Once a week throughout the year.</i>	38
Exercises in sections in the wards and out-patient departments at the M.G.H., P.B.B.H., and B.I.H. <i>Each section has thirty-two exercises of two and a half hours each and twenty-one exercises of three hours each.</i>	141
Genito-Urinary Surgery. Section work. M.G.H., P.B.B.H., and B.I.H. <i>Each student has ten or eleven two-and-a-half-hour exercises.</i>	27
Children's Surgery. Section work. C.H. <i>Each student has four one-and-a-half-hour exercises, eleven one-hour exercises, and five two-hour exercises.</i>	27

FOURTH YEAR

Clinical Clerkship: M.G.H. (Surgery C ₁ , Dr. CHURCHILL and Associates); B.C.H. (Surgery C ₂ , Dr. DUNPHY and Associates); P.B.B.H. (Surgery C ₃ , Dr. MOORE and Associates); B.I.H. Surgery C ₄ , Dr. FINE and Associates).	288
--	-----

FOURTH YEAR ELECTIVE COURSES

5. Children's Surgery. Dr. GROSS and Associates. C.M.C. Whole course, all day. Limited to two students each month.
6. Vascular and Gastrointestinal Surgery. Dr. WARREN and Associates. W.R.V.A.H. Whole course, all day. Limited to two students each month.
8. Genito-Urinary Surgery. Dr. HARRISON. P.B.B.H. Whole course, all day. Limited to two students each month.
9. Anaesthesia. Dr. BEECHER. M.G.H. or Dr. VANDAM, P.B.B.H. Whole course, all day. Attendance limited. Application to be made in person.
10. Neurosurgery. Dr. J. C. WHITE and Associates. M.G.H. or

HARVARD UNIVERSITY

Drs. INGRAHAM and MATSON, C.M.C. and P.B.B.H. Whole course, all day, limited to two students each month. Clinical clerkship on the neurosurgical wards.

20. Surgical Investigation. Dr. MOORE and Associates. P.B.B.H. and H.M.S. Whole course, all day.
21. Surgical Investigation. Dr. CHURCHILL and Associates. M.G.H. Whole course, all day.
22. Surgical Investigation. Dr. DUNPHY and Associates, B.C.H. Whole course, all day.
23. Surgical Investigation. Dr. FINE and Associates, B.I.H. Whole course, all day.

VOLUNTARY COURSES

31. Clinical Introduction to Anatomy. M.G.H., B.C.H., P.B.B.H., C.M.C. and B.I.H. Saturdays, 9 a.m. to 12 m., coincident with Anatomy. Open to first year students (same course as Anatomy 30).

These clinics serve to introduce the first year student to the patient. Whenever possible, the clinics are arranged with reference to the anatomical dissection. The subject matter is not limited to gross anatomy, however, and the clinics cover a wide range of topics in medicine, surgery, obstetrics and pediatrics.

32. Surgical Technique. Members of the third year class may register for the following courses in surgical technique at the hospital to which they have been assigned for their section work.

1. Operative Technique. M.G.H. Dr. J. B. McKITTRICK and Associates. Thursday afternoons throughout the year. Surgical Laboratories. May only be taken coincidentally with section work.

2. Operative Technique. P.B.B.H. Dr. WALTER and Associates. Thursday afternoons October-January. Laboratory for Surgical Research, H.M.S.

3. Operative Technique. B.I.H. Dr. FINE and Associates. Thursday afternoons October-January. Surgical Research Laboratory.

MEDICAL SCHOOL

Gynecology

GEORGE V. SMITH, M.D., W. H. Baker Professor of Gynecology and Head of the Department.

JOE V. MEIGS, M.D., Clinical Professor of Gynecology.

SOMERS H. STURGIS, M.D., Clinical Professor of Gynecology.

HOWARD ULFELDER, M.D., Clinical Professor of Gynecology.

CHRISTOPHER J. DUNCAN, M.D., Clinical Associate in Gynecology.

FRANCIS McC. INGERSOLL, M.D., Clinical Associate in Gynecology.

PAUL A. YOUNGE, M.D., Clinical Associate in Gynecology.

HARRY N. ANTONIADES, PH.D., Research Associate in Biological Chemistry in the Department of Gynecology.

RUTH M. GRAHAM, A.B., Sc.D. (hon.), Research Associate in Gynecology.

OLIVE W. SMITH, PH.D., S.D. (hon.), Research Associate in Gynecology.

A. GORDON GAULD, M.D., Instructor in Gynecology and in Obstetrics.

JOHN B. GRAHAM, M.D., Instructor in Gynecology.

LUKE GILLESPIE, M.D., Instructor in Gynecology and in Obstetrics.

THOMAS H. GREEN, Jr., M.D., Instructor in Gynecology.

WARD I. GREGG, M.D., Instructor in Gynecology.

RICHARD H. GROGAN, M.D., Instructor in Gynecology and in Obstetrics.

ROBERT W. KISTNER, M.D., Instructor in Gynecology.

FRED A. SIMMONS, M.D., Instructor in Gynecology.

MELVIN L. TAYMOR, M.D., Instructor in Gynecology.

ROBERT W. BROWN, M.D., Assistant in Gynecology.

CHARLES L. EASTERDAY, M.D., Assistant in Gynecology and in Obstetrics.

HERBERT W. HORNE, Jr., M.D., Assistant in Gynecology.

ALBERT Y. KEVORKIAN, M.D., Assistant in Gynecology.

WILLIAM J. MULLIGAN, M.D., Assistant in Gynecology and in Obstetrics.

JOSEPH H. PHILLIPS, M.D., Assistant in Gynecology.

HARVARD UNIVERSITY

- BARTLETT H. STONE, M.D., Assistant in Gynecology and in Obstetrics.
- ARTHUR W. TUCKER, JR., M.D., Assistant in Gynecology and in Obstetrics.
- CELSO R. GARCIA, M.D., Research Fellow in Gynecology (appointment expired August 31, 1956).
- JOHN T. HOGAN, M.D., Research Fellow in Gynecology (appointment expired September 30, 1956).
- WINIFRED LIU, M.D., Research Fellow in Gynecology.
- MAURICE L. PROVOST, M.D., Research Fellow in Gynecology (appointment expired August 15, 1956).
- ALBRECHT SCHMITT, M.D., Research Fellow in Gynecology (appointment expired October 31, 1956).
- EIICHI YAMAZAKI, M.D., PH.D., Research Fellow in Gynecology.
- JOHN P. ZAIKIS, JR., M.D., Research Fellow in Gynecology (appointment expired December 31, 1956).
- JOHN D. MCINTYRE, M.D., Teaching Fellow in Gynecology (appointment expired March 31, 1957).

Affiliated:

- SAMUEL B. KIRKWOOD, M.D., S.D. (hon.), Clinical Professor of Maternal Health, S.P.H.

REQUIRED COURSES

GYNECOLOGY A. Second Year.—Whole class exercises in conjunction with the Department of Obstetrics, covering the broad aspects of the subject as well as specific aspects of the development and normal physiology and psychology of the human female.

GYNECOLOGY B. Third Year.—This course consists of instruction in out-patient clinics, lectures and seminars and is given with obstetrics. Emphasis is placed on history-taking, examination and the diagnosis and treatment of diseases peculiar to women.

GYNECOLOGY C. Fourth Year.—This course is given with obstetrics. It includes history-taking, examinations, teaching clinics and ward rounds, instruction in the operating rooms and in gynecological pathology and conferences on the correlation of clinical data with pathology.

MEDICAL SCHOOL

SECOND YEAR

HOURS

Lectures on Normal Gynecology. Drs. REID, SMITH, STURGIS and ULFELDER. B.L.I.H. Among those given by the Department of Obstetrics three times a week for four weeks.	4
--	---

THIRD YEAR

Lectures on Abnormal Gynecology. Dr. SMITH and Associates. B.L.I.H. Among the regular 8.30 a.m. lectures.	7
Practical instruction in Clinical Gynecology Bi. Drs. SMITH, STURGIS, TENNEY, ULFELDER and Associates. In the out-patient departments of the B.C.H., F.H.W., M.G.H. and P.B.B.H. In sections, throughout the year. Each student attends thirteen exercises.	32
B2. Drs. SMITH, STURGIS, TENNEY, ULFELDER and Associates. Seminars, among those given by the Department of Ob- stetrics, Mondays and Wednesdays, 3.30 to 5.30 p.m. through- out the year. Each student takes part in four, five or six seminars given by this Department.	8, 10 or 12

FOURTH YEAR

Clinical Gynecology. Drs. SMITH, STURGIS, TENNEY, ULFELDER and Associates. B.C.H., F.H.W., M.G.H. and P.B.B.H. In sec- tions during two weeks of the fourth-year month of ob- stetrics.	104
--	-----

Orthopedic Surgery

JOSEPH S. BARR, M.D., John Ball and Buckminster Brown Clinical Professor of Orthopedic Surgery.	
WILLIAM T. GREEN, M.D., Clinical Professor of Orthopedic Surgery.	
EDWIN F. CAVE, M.D., Assistant Clinical Professor of Orthopedic Surgery.	
DAVID S. GRICE, M.D., Assistant Clinical Professor of Orthopedic Surgery.	
OTTO E. AUFRANC, M.D., Clinical Associate in Orthopedic Sur- gery.	
ALBERT H. BREWSTER, M.D., Clinical Associate in Orthopedic Surgery.	

HARVARD UNIVERSITY

THORTON BROWN, M.D., Associate in Orthopedic Surgery at the Massachusetts General Hospital.

JONATHAN COHEN, M.D., Associate in Orthopedic Surgery at the Children's Hospital.

MEIER KARP, M.D., Clinical Associate in Orthopedic Surgery.

THOMAS F. BRODERICK, JR., M.D., Instructor in Orthopedic Surgery.

THOMAS L. DELORME, M.D., Instructor in Orthopedic Surgery.

PAUL W. HUGENBERGER, M.D., Instructor in Orthopedic Surgery.

WILLIAM N. JONES, M.D., Instructor in Orthopedic Surgery.

ROBERT J. JOPLIN, M.D., Instructor in Orthopedic Surgery.

JOHN G. KUHNS, M.D., S.D., Instructor in Orthopedic Surgery.

JOHN D. LEIDHOLT, M.D., Instructor in Orthopedic Surgery.

J. DRENNAN LOWELL, M.D., Instructor in Orthopedic Surgery.

WILLIAM R. MACAUSLAND, JR., M.D., Instructor in Orthopedic Surgery.

RORERT H. MORRIS, M.D., Instructor in Orthopedic Surgery.

PAUL L. NORTON, M.D., Instructor in Orthopedic Surgery.

EUGENE E. RECORD, M.D., Instructor in Orthopedic Surgery.

JOHN A. REIDY, M.D., Instructor in Orthopedic Surgery.

CARTER R. ROWE, M.D., Instructor in Orthopedic Surgery.

MORTEN SMITH-PETERSEN, M.D., Instructor in Orthopedic Surgery.

ROBERT ULIN, M.D., Instructor in Orthopedic Surgery.

HENRY H. BANKS, M.D., Assistant in Orthopedic Surgery.

WILLIAM A. ELLISTON, M.B.,CH.B., Assistant in Orthopedic Surgery.

JOHN W. HAYDEN, M.D., Assistant in Orthopedic Surgery.

ARTHUR W. Trott, M.D., Assistant in Orthopedic Surgery.

FRANK D. BATES, M.D., Teaching Fellow in Orthopedic Surgery (appointment expired March 31, 1957).

HOWARD S. CAMERON, M.D., Teaching Fellow in Orthopedic Surgery.

WALLACE E. JOHNSON, M.D., Teaching Fellow in Orthopedic Surgery (appointment expired September 30, 1956).

MEDICAL SCHOOL

RICHARD MAYO, M.D., Teaching Fellow in Orthopedic Surgery
(appointment expired December 31, 1956).

PAUL ZETTAS, M.D., Teaching Fellow in Orthopedic Surgery (appointment expires March 31, 1957).

REQUIRED COURSE

ORTHOPEDIC SURGERY A. Third Year.—Instruction is given in orthopedic surgery by lectures at the Children's Medical Center and the Massachusetts General Hospital in the first half of the third year, and throughout the third year by clinical exercises at the Children's Medical Center, the Massachusetts General Hospital, the Peter Bent Brigham Hospital, and the Beth Israel Hospital.

THIRD YEAR	HOURS
Lectures. Drs. BARR, GREEN and Associates. C.M.C.	8
Clinical exercises. Drs. BARR, GREEN and Associates. M.G.H., C.M.C., P.B.B.H., and B.I.H. <i>In sections throughout the year.</i>	65

Thirty of these hours are clinical exercises in orthopedic surgery and industrial surgery of adults which are correlated with clinical exercises in general surgery at the Massachusetts General Hospital, the Peter Bent Brigham Hospital and the Beth Israel Hospital during the surgery assignment to these hospitals. Thirty-five hours are clinical exercises in general and pediatric orthopedic surgery at the Children's Medical Center.

FOURTH YEAR

Clinical exercises and assignments are provided in correlation with the prescribed general surgical course at the P.B.B.H.

FOURTH YEAR ELECTIVE COURSES

1. Clinical Course. Dr. BARR and Associates. M.G.H. Whole course, all day. Limited to two students each month.
2. Clinical Course. Dr. GREEN and Associates. C.M.C. Whole course, all day. Limited to two students each month.
3. Clinical Course. Drs. GREEN, BARR and Associates. C.M.C. and M.G.H. Whole course, all day. Limited to two students each month.

HARVARD UNIVERSITY

Otology and Laryngology

LEROY A. SCHALL, M.D., A.M. (hon.), S.D. (hon.), Walter Augustus Lecompte Professor of Otology and Professor of Laryngology and Head of the Department.

ROBERT L. GOODALE, M.D., Assistant Clinical Professor of Laryngology.

MOSES H. LURIE, D.M.D., M.D., Assistant Clinical Professor of Otology.

FRANCIS L. WEILLE, M.D., Assistant Clinical Professor of Otology.

PHILIP E. MELTZER, D.M.D., M.D., Lecturer on Otology.

WALTER J. E. CARROLL, M.D., Instructor in Laryngology.

MAURICE G. EVANS, M.D., Instructor in Laryngology.

CARLYLE G. FLAKE, M.D., Instructor in Laryngology.

EDGAR M. HOLMES, M.D., Instructor in Otology.

BURTON E. LOVESY, M.D., Instructor in Laryngology.

WERNER MUELLER, M.D., Instructor in Laryngology and in Otology.

LYMAN G. RICHARDS, M.D., Instructor in Laryngology.

JOHN R. RICHARDSON, M.D., Instructor in Laryngology.

HUGO D. ANGELINI, M.D., Assistant in Otology.

JOSHUA C. DROOKER, M.D., Assistant in Laryngology.

ALAN S. FELDMAN, S.M., Assistant in Otology.

CHARLES F. FERGUSON, M.D., Assistant in Otology.

VINCENT J. KELLEY, M.D., Assistant in Laryngology.

CHARLES KENT, M.D., Assistant in Laryngology.

ROBERT E. KLOTZ, M.D., Assistant in Otology.

JOSEPH LENTINE, M.D., Assistant in Laryngology.

DONALD K. LEWIS, M.D., Assistant in Laryngology.

WILLIAM W. MONTGOMERY, M.D., Assistant in Otology.

GEORGE F. REED, M.D., Assistant in Laryngology.

ARAM ROOPENIAN, M.D., Assistant in Otology.

HERMAN J. STERNSTEIN, M.D., Assistant in Laryngology.

DON J. WEEKES, M.D., Assistant in Otology and Laryngology.

ROBERT S. GOHD, PH.D., Research Fellow in Bacteriology and Immunology in the Department of Otology and Laryngology.

MEDICAL SCHOOL

Affiliated:

ALEXANDER S. MACMILLAN, M.D., Clinical Associate in Radiology.
JOHN S. IRWIN, M.D., Research Associate in Microcirculation.

REQUIRED COURSES

OTOLOGY and LARYNGOLOGY A. *Third Year.*—Instruction is given by lectures at the Harvard Medical School and clinical instruction in the third year in sections, each student receiving instruction every morning for two weeks at the M.E.E.I.

THIRD YEAR	HOURS
Clinical exercises. Dr. SCHALL and Associates. M.E.E.I. <i>Ten or eleven exercises for each student.</i>	30
Lectures in Otology. Dr. LURIE. H.M.S.	5
Lectures in Laryngology. Dr. SCHALL. H.M.S.	5

FOURTH YEAR ELECTIVE COURSES

1. Clinical Otology. Dr. SCHALL and Associates. M.E.E.I. Half-course, mornings, offered throughout the year.
2. Clinical Laryngology. Dr. SCHALL and Associates. M.E.E.I. Half-course, mornings, offered throughout the year.

(These courses are limited to two students each month.)

Dental Medicine

The following courses are offered to students in The Medical School —

VOLUNTARY COURSE

30. *Diagnosis of Oral Diseases.* Dr. WEISBERGER and Associates. November and December, Thursdays, 3.30–5.00 p.m. Dental Infirmary and M.G.H. Open to third and fourth year students. Course in lectures, seminars, clinic practice. (Will not be given for fewer than 10 students.)

HARVARD UNIVERSITY

FOURTH YEAR ELECTIVE COURSES

1. *Dental Medicine.* Dr. WEISBERGER, M.G.H., C.M.C., S.D.M. (Half or full course.) Experience will be offered in the recognition of local disease of the oral cavity as well as those abnormalities of the oral cavity which are associated with systemic disease. Limited to 10 students.
20. *Research.* Staff to be selected for the particular need. An opportunity for special study for a period of one or more months.

**TABULAR VIEW
OF
SCHEDULES AND REGISTRATION**

SEPTEMBER 24, 1956 — JUNE 13, 1957

FIRST YEAR
FIRST HALF YEAR *

SEPTEMBER 24, 1956 — JANUARY 26, 1957 (*All dates inclusive*)

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-1	Anatomy	Histology	Anatomy	Histology	Anatomy or Histology (alternate weekly) 11:30 – 12:30	Voluntary Clinics
2-5	Anatomy	Histology	Anatomy	Histology	Medical Psychology (Bldg. B)	

* All exercises in Building B.

SECOND HALF YEAR †
JANUARY 28 — MAY 25, 1957 (*All dates inclusive*)

9-1	Biological Chemistry	Physiology	Biological Chemistry	Physiology	Biological Chemistry Lecture and Conference	Physiology Lecture and Conference
2-5	Biological Chemistry	Physiology	Biological Chemistry	Physiology	11:30 – 12:30 Medical Psychology (Bldg. B)	Voluntary Courses

† All exercises in Building C, except Medical Psychology.

Examination Period: May 26 – June 1 Vacations: Dec. 22 – Jan. 2 Holidays: Oct. 12 Feb. 22
 April 14–21 Nov. 12 Apr. 19
 December 22

Dates	Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				A. M.			
Sept. 24 — Jan. 26 (16 weeks)	9-10	Pathology (Bldg. D)	Pharmacology		Pharmacology		Pharmacology
10-12.30		Sept. 25 — Nov. 20 Jan. 3 — 26 Pharmacology (E) Bacteriology (D) (½ Class Each Course)	Pathology (Bldg. D)	Sept. 25 — Nov. 20 Jan. 3 — 26 Pharmacology (E) Bacteriology (D) (½ Class Each Course)	Pathology (Bldg. D)	Sept. 25 — Nov. 20 Jan. 3 — 26 Pharmacology (E) Bacteriology (D) (½ Class Each Course)	Sept. 25 — Nov. 20 Jan. 3 — 26 Pharmacology (E) Bacteriology (D) (½ Class Each Course)
12.30-1		Parasitology (D) Nov. 24 — Dec. 20			Parasitology (D) Nov. 24 — Dec. 20		Parasitology (D) Nov. 24 — Dec. 20
Jan. 28 — May 25 (16 weeks)	8.30-9.30	Pathology Jan. 28 — Apr. 5 10 weeks Neuropathology Apr. 8 — May 24 6 weeks (Bldg. D)	Medicine * Jan. 28 — Apr. 5 10 weeks Neuropathology Apr. 8 — May 24 6 weeks (Bldg. D)	Pathology Jan. 28 — Apr. 5 10 weeks Neuropathology Apr. 8 — May 24 6 weeks (Bldg. D)	Surgery * Jan. 28 — Apr. 5 10 weeks Neuropathology Apr. 8 — May 24 6 weeks (Bldg. D)	Pathology Jan. 28 — Apr. 5 10 weeks Neuropathology Apr. 8 — May 24 6 weeks (Bldg. D)	Medicine *
9.30-10 10-11.30		Div. A: Med. (Phys. Diag.) Div. B: Surgery {Divisions {Alternate Weekly}}			Div. B: Med. (Phys. Diag.) Div. A: Surgery {Divisions {Alternate Weekly}}		Div. A: Med. (Phys. Diag.) Div. B: Surgery {Divisions {Alternate Weekly}}
11.30-12 12-1		Medicine *		Neurology and Psychiatry *		Medicine *	
				P. M.			
Sept. 24 — Jan. 26 (12 weeks)	2-5	Bacteriology (Bldg. D)		Bacteriology (Bldg. D)		Bacteriology (Bldg. D)	
Jan. 27	2-3	Pharmacology (Amph. E)		Pharmacology (Amph. E)		Pharmacology (Amph. E)	
	3-5	Medicine: Laboratory Diagnosis (Bldg. D)		Medicine: Laboratory Diagnosis (Bldg. D)		Medicine: Laboratory Diagnosis (Bldg. D)	
Apr. 29-May 25 (4 weeks)	2-3	Obstetrics (B. L. I.)		Obstetrics (B. L. I.)		Obstetrics (B. L. I.)	
	3-5	Medicine: Laboratory Diagnosis (Bldg. D)		Medicine: Laboratory Diagnosis (Bldg. D)		Medicine: Laboratory Diagnosis (Bldg. D)	

* See mimeographed schedule for place of meeting.

Vacations: Dec. 22 — Jan. 2
April 14-21
Examination Period: May 27-June 1.

Holidays: Oct. 12
Nov. 12
May 22
Apr. 19
May 30

HARVARD UNIVERSITY

THIRD YEAR

SEPTEMBER 24, 1956—MAY 25, 1957 (All dates inclusive)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.30-9.30	Lecture	Lecture	Lecture	Lecture	Lecture	Lecture
10-1	½ of Class: I. Medicine II. Med. Spec.* ½ of Class: I. Surgery II. Surg. Spec.† ½ of Class: A. Pediatrics B. Orthopaedic Surgery Obstetrics § Otorhinolaryngology Ophthalmology	½ of Class: I. Med. Spec.* II. Medicine ½ of Class: I. Surgery II. Surg. Spec.† ½ of Class: A. Pediatrics B. Orthopaedic Surgery Obstetrics § Otorhinolaryngology Ophthalmology	½ of Class: I. Medicine II. Med. Spec.* ½ of Class: I. Surgery II. Surg. Spec.† ½ of Class: A. Pediatrics B. Orthopaedic Surgery Obstetrics § Otorhinolaryngology Ophthalmology	½ of Class: I. Med. Spec.* II. Medicine ½ of Class: I. Surgery II. Surg. Spec.† ½ of Class: A. Pediatrics B. Orthopaedic Surgery Obstetrics § Otorhinolaryngology Ophthalmology	½ of Class: I. Med. Spec.* II. Medicine ½ of Class: I. Surgery II. Surg. Spec.† ½ of Class: A. Pediatrics B. Orthopaedic Surgery Obstetrics § Otorhinolaryngology Ophthalmology	½ of Class: I. Med. Spec.* II. Medicine ½ of Class: I. Surgery II. Surg. Spec.† ½ of Class: A. Pediatrics B. Orthopaedic Surgery Obstetrics § Otorhinolaryngology Ophthalmology
2-5	½ of Class: Medicine ½ of Class: Surgery ½ of Class: Pediatrics Orthopaedic Surgery	FREE	FREE	FREE	(Oct. 26—Jan. 25) Legal Medicine 4.15-5.15	Lecture Preventive Medicine 2-5 FREE

* Med. Spec. = Neurology, Psychiatry, Dermatology.

† Surg. Spec. = Genito-Urinary Surgery, Gynecology, Laryngology.
 \$ For this course the students are assigned to the B.L.I., B.C.H., or the P.L.I., and are on duty for a period of ten or eleven days.

The Class is divided into thirds and the Medical and Surgical thirds are made up of two groups:
 Group I.—Having Medicine or Surgery on Mondays, Wednesdays and Fridays and the Medical or Surgical specialties on Tuesdays, Thursdays and Saturdays.

Group II.—Having Medicine or Surgery on Tuesdays, Thursdays and Saturdays and the Medical or Surgical specialties on Mondays, Wednesdays and Fridays.
 The Third having Pediatrics, etc., is made up of Divisions A and B. These Divisions interchange every 32 days.

Holidays: Oct. 12; Nov. 12; Nov. 22; Feb. 22; April 19; May 30.
 Vacations: Dec. 22, 1956-Jan. 2, 1957; March 31-April 7, 1957.
 Examination Period: May 27-June 1.

MEDICAL SCHOOL

FOURTH YEAR

SEPTEMBER 24, 1956 — JUNE 13, 1957

(Each block represents one month. Order of subjects variable.)

	1	2	3	4
MORNING	Medicine C1, C2, C3, or C4*	Medicine C1, C2, C3, or C4*	Surgery C1, C2, C3, or C4*	Surgery C1, C2, C3, or C4*
AFTERNOON				
	5	6	7	8
MORNING	Obstetrics C1	Pediatrics C1 or C2	Psychiatry C1, C2, or C3	Elective
AFTERNOON				

In addition to the eight months' required work, each student may elect courses for three additional months by anticipating work during the summer months.

* October to May.

HARVARD UNIVERSITY

ON JUNE 14, 1956, ONE HUNDRED AND FIFTY DEGREES WERE
CONFERRED AS FOLLOWS:

M.D.

SAMUEL NWANNEKA NWAOBODO ADIMORA, S.B. (*Haverford College*)

1951

JOEL JACOBS ALPERT, A.B. (*Yale University*) 1952

ARTHUR FRANKLIN AMICK, A.B. (*Dartmouth College*) 1953

WILLIAM BANKS ANDERSON, JR., A.B. (*Princeton University*) 1952

THOMAS HOWELL ARRINGTON, S.B. (*Millsaps College*) 1952

LAWRENCE BAKER, D.M.D. 1954

MARY VIRGINIA BALL, A.B. (*Smith College*) 1940

CHARLES FISHER BARBARISI, A.B. (*College of the Holy Cross*) 1952

DONAVIN ALBERT BAUMGARTNER, JR., A.B. (*Princeton University*) 1952

ERNEST WALTER BERGEL, A.B. (*Columbia University*) 1951, A.M. (*ibid.*)

1952

WILLIAM FRANK BERGIN

JOHN RICHARD BORDER

BENJAMIN NICHOLS BRANCH, A.B. (*Dartmouth College*) 1953

MALCOLM BROCHIN, A.B. (*Dartmouth College*) 1952

KIRBY KNAPP BRYANT, A.B. (*University of Mississippi*) 1952, S.B. (*ibid.*)

1955

BOB BULLWINKEL, A.B. (*Princeton University*) 1952

WILLIAM GEORGE BUSH, A.B. 1952

ALAN BRUCE CAMERON, A.B. (*Princeton University*) 1952

JOHN EDWARD ZIMMERMAN CANAR, A.B. 1952

ROBERT WEST CHAMBERLIN, JR., S.B. (*Princeton University*) 1951

EUGENE CHARLES CICCARELLI, A.B. (*University of Rochester*) 1954

ROBERT CLAFLIN, A.B. 1950

THOMAS MICHAEL CLENDENIN, A.B. (*Columbia University*) 1952

ROBERT WAYNE CLUBB, A.B. (*Linfield College*) 1948, S.M. (*University of Rochester*) 1951, D.M.D. (*Harvard University*) 1954

WAYNE POE COCKRELL, S.B. (*Mississippi State College*) 1953

RICHARD EDWIN COGGESHALL, A.B. (*University of Chicago*) 1951

DAVID UPJOHN COOKSON

ROBERT SHEPARD COTSEN, A.B. (*Dartmouth College*) 1952

JOHN STEWART DAVIS, A.B. (*Hamilton College*) 1952

LEBARON WILLIAM DENNIS, A.B. (*Dartmouth College*) 1953

ANDREW DAMIAN DORR, A.B. 1952

MEDICAL SCHOOL

- FREDERICK LESTER DUNN, A.B. 1951
RICHARD HENRY FALLON, S.B. (*Boston College*) 1952
THOMAS CORWIN FLEMING, A.B. 1952
STANLEY STEWART FRANKLIN, A.B. (*University of California at Los Angeles*) 1952
IRWIN MARK FREEDBERG
ANTHONY EDWARD GALLO, JR., S.B. (*Tufts College*) 1952
LEONARD GARREN, S.B. (*College of the City of New York*) 1948, S.M.
(*University of Wisconsin*) 1950, D.M.D. (*Harvard University*)
1954
BRUCE LESLIE GILMORE, A.B. (*Dartmouth College*) 1953
STANLEY GOLDSTEIN, S.B. (*The Citadel*) 1950, D.M.D. (*Harvard Uni-*
versity) 1954
ROBERT MALCOLM GOLDWYN, A.B. 1952
ROBERT ALVAN GOODELL, JR., A.B. (*Brown University*) 1952
ALLEN DAVID GOODMAN, A.B. 1953 (1952)
NATHANIEL DEERE GREENBERG, A.B. 1952
EVERETT WILBERT HAGGETT, A.B. (*Dartmouth College*) 1953
WILLIAM ANTHONY HALL, A.B. 1950
FIRMON E HARDENBERGH, A.B. 1952
EDDIE HENRY HARRIS, S.B. (*Tennessee State College*) 1951
EDGAR CUMMINGS HENSHAW, A.B. 1952
DAVID FLEMING HICKOK, A.B. (*Princeton University*) 1952
ERNEST ALEXANDER HIGGINS, JR., A.B. 1952
WILLIAM EDWARD HITSELBERGER
OSCAR AKIO ISERI, S.B. (*Antioch College*) 1952
JOHN ARTHUR JACOBÉY, JR., A.B. (*Dartmouth*) 1951
HERSHEL JICK, A.B. (*Washington University*) 1952
WALTER KAUPE, S.B. (*Massachusetts Institute of Technology*) 1946,
S.M. (*ibid.*) 1948
DONALD AGGER KELLOGG, A.B. (*Indiana University*) 1952
LEONARD EDWARD KING, A.B. (*New York University*) 1949, D.M.D.
(*Harvard University*) 1954
ALEXANDER LIONEL KISCH, A.B. (*Columbia University*) 1952
WILLIAM EARL KORNDORFFER, JR., S.B. (*University of Mississippi*) 1952
FREDERIC WOOD LAFFERTY, S.B. (*Western Reserve University*) 1952
HENRY LATHAM LAWS, 2D, S.B. (*University of Mississippi*) 1954
MELVIN LEDERMAN, S.B. (*University of Michigan*) 1949, S.M. (*ibid.*)
1950, S.M. (*Yale University*) 1952

HARVARD UNIVERSITY

- LAWRENCE MARVIN LEONARD, A.B. (*Haverford College*) 1953
FRANCIS ANTHONY L'ESPÉRANCE, JR., A.B. (*Dartmouth College*) 1953
NORMAN DAVID LEVINE, A.B. 1952
EDWARD YIN LIANG, S.B. (*George Washington University*) 1952
ERVIN LEO LOBPREIS
GORDON CARLYLE MACLEOD, A.B. 1952
DAVID EDWARD MARCELLO, JR., A.B. (*Brown University*) 1950, D.M.D.
(*Harvard University*) 1954
JAMES RODERICK McARTHUR, A.B. (*Reed College*) 1952
PAUL RODNEY McHUGH, A.B. 1952
JOHN MURRELL McRAE, JR., S.B. (*University of Mississippi*) 1953
ALBERT DOMINIC MENNO
JOSEPH VERNE MESSER, A.B. 1953
LEE GILBERT MILLER, A.A. (*University of California*) 1951
JOHN HOLLISTER MILNE, A.B. 1952
THOMAS EDWARD MOORE, JR., A.B. 1952
MALCOLM HOWARD MOSS, A.B. (*Dartmouth College*) 1953
DONALD FRANCIS MUHICH
THOMAS OLIVER NEVISON, A.B. 1951
CHARLES ERIC NORTON, A.B. 1952
ROBERT EGERTON GRAHAM NORTON, A.B. (*Grinnell College*) 1952
RICHARD SHERIDAN O'HARA, S.B. (*College of the Holy Cross*) 1952
JOSEPH PAUL O'MALLEY, S.B. (*College of the Holy Cross*) 1951
WALTER NORMAN PAHNKE, A.B. (*Carleton College*) 1952
PHILIP FORD PARSHLEY, JR., A.B. (*Dartmouth College*) 1953
GEOFFREY RAYMOND PAUL, A.B. 1952
RALPH EDWIN PERRY, JR., A.B. 1951
CHASE NEBEKER PETERSON, A.B. 1952
MALCOLM RYBURN POWELL, A.B. (*Princeton University*) 1952
JAMES WILLIAM RAITT, A.B. 1952
PETER REICH, A.B. 1952
RUSSELL ALLEN ROHDE, S.B. (*University of North Dakota*) 1954
SAUL WOOLF ROSEN, A.B. (*Harvard University*) 1948(1947), PH.D.
(*Northwestern University*) 1955
MURRAY DAVID ROSENBERG, A.B. (*Harvard University*) 1946(1947),
A.M. (*ibid.*) 1948, M.ENG.SCI. (*ibid.*) 1950, PH.D. (*ibid.*) 1952
JOHN JOSEPH ROSS, A.B. (*Duke University*) 1951
SANFORD IRWIN ROTH
JAMES HILARY RYAN, A.B. (*Yale University*) 1952

MEDICAL SCHOOL

- LEON DAVID SABATH, A.B. 1952
PARVIN SAIDI, A.B. (*Smith College*) 1953
MARIANNE FRANCOISE SCHWOB, A.B. (*Bryn Mawr College*) 1952
KENNETH WALTER SELL, A.B. (*University of North Dakota*) 1953, S.B.
(ibid.) 1954
MELVIN SHAFRON, S.B. (*Western Reserve University*) 1952
GARDNER WATKINS SMITH
RICHARD LEE SOGG, A.B. 1952
EMERALD MARTIN SPENCER, A.B. (*Dartmouth*) 1952
JOHN JOSEPH BRENDAN SPILLANE, A.B. 1952
ROSALIND STEINHARDT, A.B. (*Barnard College*) 1953
ROBERT BABERS STELL, A.B. (*Princeton University*) 1952
ROGER AVON STERLING, A.B. (*University of California at Los Angeles*)
1952
CLAIRE MARTIN STILES, A.B. (*Wellesley College*) 1952
WILLIAM LEE STRICKLER, A.B. (*James Millikin University*) 1953
ROBERT MALONE STROUD, A.B. 1952
DONALD JOSEPH SVOBODA, A.B. (*University of North Dakota*) 1953, S.B.
(ibid.) 1954
TOM KEIZO, TAIRA, A.B. (*University of Wisconsin*) 1948 A.M. (*ibid.*)
1949, D.M.D. (*Harvard University*) 1954
CHARLES KAZUTO TASHIMA, A.B. (*Johns Hopkins University*) 1952
MAHMUD ALI THAMER, A.B. (*University of California*) 1952
GEORGE LEON TUCKER, A.B. (*Columbia University*) 1952
BERNARD GEORGE VINE, A.B. (*Yale University*) 1950, D.M.D. (*Harvard
University*) 1954
JOSEPHINE RASKIND VON HIPPEL, A.B. (*Bryn Mawr College*) 1950, S.M.
(*Massachusetts Institute of Technology*) 1952
JEROME KENNETH WALKER, D.M.D. 1953
ARNOLD NELSON WEINBERG, S.B. (*Cornell University*) 1952
MARTIN KEISTER WHITE, A.B. 1952
CHARLES WILLIAM YOUNG, A.B. (*Columbia University*) 1952
HARRY ZEHNER, JR., A.B. (*Princeton University*) 1952

M.D. cum Laude for Thesis in a Special Field

- LEON ISADORE GOLDBERG, S.B. (*Medical College of South Carolina*)
1946, S.M. (*ibid.*) 1951, PH.D. (*ibid.*) 1952
JOHN WAGNER GROVER, A.B. 1953(1952)
CHARLES MEYER RADDING, A.B. 1952

HARVARD UNIVERSITY

M.D. cum Laude

- ANITA ADLER, A.B. (*Wellesley College*) 1952
CHESTER ALAN ALPER, A.B. 1952
HOWARD PHILIP BADEN, A.B. 1952
NORMAN KINGSBURY BROWN, A.B. (*Amherst College*) 1952
LOUIS HENRY EDMUNDS, JR., S.B. (*University of Washington*) 1953
MYRON MICHAEL EISENBERG, A.B. (*New York University*) 1952
SPENCER GORDON, JR., A.B. (*Princeton University*) 1952
JACK JAY GREENBERG, A.B. 1952
MARC FREDERICK HANSEN, A.B. 1952
RAYMOND BARTON HOCHMAN, A.B. (*Yale University*) 1952
THOMAS KNIGHT HUNT, A.B. 1952
ARNOLD MARTIN KATZ, A.B. (*University of Chicago*) 1952
DONALD MORRIS MCKEE, A.B. 1952
ALFRED ERIC MILLER, S.B. (*University of Washington*) 1951
ALAN DAVID PERLMUTTER, A.B. 1952
JAMES ALLEN ROSE, A.B. (*Dartmouth College*) 1953
STEFAN CONRAD SCHATZKI, A.B. 1952
JAMES BYRON SNOW, JR., S.B. (*University of Oklahoma*) 1953

M.D. Magna cum Laude

- GUY OCTO BARNETT, A.B. (*Vanderbilt University*) 1952
HERBERT EDWARD KAUFMAN, A.B. (*Princeton University*) 1952
ANTHONY PETER MONACO, A.B. (*University of Pennsylvania*) 1952

CLASS OF JUNE 1956
INTERNSHIPS

Unless otherwise noted all *internships* start July 1, 1956
for one year.

<i>Name</i>	<i>Hospital (and location)</i>	<i>Service</i>
Adimora, Nwanneka	Bellevue (III Div.-N.Y.U.), New York City	Surgery
Adler, Anita	Strong Memorial, Rochester, N. Y.	Pathology
Alper, Chester A.	Boston City (Harvard Service)	Medicine
Alpert, Joel J.	Children's Medical Center, Boston	Pediatrics
Amick, Arthur F.	Massachusetts General, Boston	Medicine
Anderson, W. Banks	Duke, Durham, N. C.	Surgery
Arrington, Thomas	University, Jackson, Miss.	Rotating
Baden, Howard P.	Peter Bent Brigham, Boston	Medicine
Baker, Lawrence	Beth Israel, Boston	Medicine
Ball, Mary V.	Mary Hitchcock Memorial, Hanover, N. H.	Rotating
Barbarisi, Charles F.	Boston City (Harvard Service)	Surgery
Barnett, G. Octo	Peter Bent Brigham, Boston	Medicine
Baumgartner, A., Jr.	University Hospitals, Cleveland, Ohio	Surgery
Bergel, Ernest W.	North Carolina Memorial, Chapel Hill	Medicine
Bergin, William F.	Veterans Administration, Los Angeles, Calif.	Rotating
Border, John R.	U. S. Public Health, Brighton, Mass.	Mixed
Branch, Benjamin	Mary Hitchcock Memorial, Hanover, N. H.	Rotating
Brochin, Malcolm	Roosevelt, New York City	Mixed
Brown, Norman K.	Massachusetts General, Boston	Medicine
Bryant, Kirby K.	U. of Texas Medical Branch Hosps., Galveston	Rotating
Bullwinkel, Bob	Massachusetts General, Boston	Surgery
Bush, William G.	Boston City (Harvard Service)	Medicine
Cameron, Alan B.	University Hospitals, Columbus, Ohio	Rotating

HARVARD UNIVERSITY

<i>Name</i>	<i>Hospital (and location)</i>	<i>Service</i>
Caner, John E. Z.	King County, Seattle, Wash.	Medicine
Chamberlin, Robert	Mary Hitchcock Memorial, Hanover, N. H.	Rotating
Ciccarelli, Eugene C.	Peter Bent Brigham, Boston	Medicine
Claflin, Robert	Herrick Memorial, Berkeley, Calif.	Rotating
Clendenin, Thomas	Mary Imogene Bassett, Coopers-town, N. Y.	Mixed
Clubb, Robert W.	U. S. Public Health, Brighton, Mass.	Mixed
Cockrell, Wayne P.	University, Jackson, Miss.	Rotating
Coggeshall, Richard	Cook County, Chicago, Ill.	Rotating
Cookson, David U.	Ancker, St. Paul, Minn.	Rotating
Cotsen, Robert S.	Boston City (Harvard Service)	Medicine
Davis, John S.	Mary Imogene Bassett, Coopers-town, N. Y.	Medicine
Dennis, LeBaron W.	Mary Hitchcock Memorial, Hanover, N. H.	Rotating
Dorr, Andrew D.	Boston City (Tufts Service)	Medicine
Dunn, Frederick L.	King County, Seattle, Wash.	Rotating
Edmunds, Louis H.	Massachusetts General, Boston	Surgery
Eisenberg, Myron	Peter Bent Brigham, Boston	Surgery
Fallon, Richard H.	Barnes, St. Louis, Mo.	Surgery
Fleming, T. Corwin	U. of California Hospital at Los Angeles	Medicine
Franklin, Stanley S.	New York, New York City	Medicine
Freedberg, Irwin M.	Beth Israel, Boston	Medicine
Gallo, Anthony E.	Boston City (Tufts Service)	Surgery
Garren, Leonard	Duke, Durham, N. C.	Medicine
Gilmore, Bruce L.	New York, New York City	Medicine
Goldberg, Leon I.	Massachusetts General, Boston	Medicine
Goldstein, Stanley	Bellevue (III Div.-N.Y.U.), New York City	Pediatrics
Goldwyn, Robert	Peter Bent Brigham, Boston	Surgery
Goodell, Robert A.	Hartford, Hartford, Conn.	Rotating
Goodman, Allen D.	Peter Bent Brigham, Boston	Medicine
Gordon, Spencer, Jr.	Johns Hopkins, Baltimore, Md.	Surgery

MEDICAL SCHOOL

<i>Name</i>	<i>Hospital (and location)</i>	<i>Service</i>
Greenberg, Jack J.	Massachusetts General, Boston	Surgery
Greenberg, N.	U. of Chicago Clinics, Chicago	Rotating
Grover, John W.	Massachusetts General, Boston	Surgery
Haggett, Everett W.	Mary Hitchcock Memorial, Hanover, N. H.	Rotating
Hall, William A.	Boston City (Boston U. Service)	Medicine
Hansen, Marc F.	Boston City (Harvard Service)	Medicine
Hardenbergh, F. E.	Pennsylvania, Philadelphia	Rotating
Harris, Eddie H.	Kings County, Brooklyn, N. Y.	Rotating
Henshaw, Edgar C.	Boston City (Harvard Service)	Medicine
Hickok, David F.	Peter Bent Brigham, Boston	Surgery
Higgins, Ernest A.	Boston City (Harvard Service)	Medicine
Hitselberger, W. E.	U. of Minnesota Hospitals, Minneapolis	Surgery
Hochman, Raymond	Beth Israel, Boston	Medicine
Hunt, Thomas K.	Boston City (Harvard Service)	Surgery
Iseri, Oscar A.	King County, Seattle, Wash.	Medicine
Jacobey, John A., Jr.	Jefferson Davis, Houston, Texas	Surgery
Jick, Hershel	Beth Israel, Boston	Medicine
Katz, Arnold M.	Massachusetts General, Boston	Medicine
Kaufman, Herbert	Massachusetts General, Boston	Medicine
Kaupe, Walter	Faulkner, Jamaica Plain	Rotating
Kellogg, Donald A.	North Carolina Memorial, Chapel Hill	Medicine
King, Leonard E.	U. of California, San Francisco	Surgery
Kisch, Alex L.	Duke, Durham, N. C.	Medicine
Korndorffer, W. E.	Jefferson Davis, Houston, Texas	Rotating
Lafferty, Frederic	U. S. Army, Walter Reed, Washington, D. C.	Rotating
Laws, Henry L., 2d	Jefferson Davis, Houston, Texas	Rotating
Lederman, Melvin	U. of California, San Francisco	Surgery
Leonard, Lawrence	Beth Israel, Boston	Surgery
L'Esperance, F. A.	Presbyterian, New York City	Surgery
Levine, Norman D.	Mount Sinai, New York City	Rotating
Liang, Edward Y.	Bellevue (III Div.-N.Y.U.), New York City	Medicine

HARVARD UNIVERSITY

Name	Hospital (<i>and location</i>)	Service
Lobpreis, Ervin L.	U. of California Hosp. at Los Angeles	Surgery
MacLeod, Gordon	U. S. Air Force, Madigan Army, Tacoma, Wash.	Rotating
Marcello, David E.	Beth Israel, Boston	Surgery
McArthur, James R.	Salt Lake County General, Salt Lake City, Utah	Medicine
McHugh, Paul R.	Peter Bent Brigham, Boston	Medicine
McKee, Donald M.	Massachusetts General, Boston	Surgery
McRae, John M.	University, Jackson, Miss.	Rotating
Menno, Albert D.	Edward J. Meyer Memorial, Buffalo, N. Y.	Rotating
Messer, Joseph V.	Boston City (Harvard Service)	Medicine
Miller, Alfred E.	Massachusetts General, Boston	Surgery
Miller, Lee G.	North Carolina Memorial, Chapel Hill	Mixed
Milne, John H.	Pennsylvania, Philadelphia	Rotating
Monaco, Anthony P.	Massachusetts General, Boston	Surgery
Moore, Thomas E.	Jefferson Davis, Houston, Texas	Surgery
Moss, Malcolm H.	Mary Hitchcock Memorial, Hanover, N. H.	Rotating
Muhich, Donald F.	Ancker, St. Paul, Minn.	Rotating
Nevison, Thomas	U. of Oregon Medical School Hosps. and Clinics, Portland	Rotating
Norton, Charles E.	U. of Illinois Research and Educational, Chicago	Rotating
Norton, Robert E.	Iowa Methodist, Des Moines	Rotating
O'Hara, Richard S.	University Hospitals, Cleveland, Ohio	Surgery
O'Malley, Joseph P.	U. S. Public Health, Brighton, Mass.	Mixed
Pahnke, Walter N.	Denver General, Denver	Rotating
Parshley, Philip F.	Boston City (Harvard Service)	Surgery
Paul, Geoffrey R.	U. of California, San Francisco	Medicine
Perlmutter, Alan D.	Peter Bent Brigham, Boston	Surgery
Perry, Ralph E., Jr.	Bellevue (III Div.-N.Y.U.), New York City	Pediatrics

MEDICAL SCHOOL

Name	Hospital (and location)	Service
Peterson, Chase N.	Grace-New Haven Community, New Haven, Conn.	Medicine
Powell, Malcolm R.	U. S. Navy, Oakland, Calif.	Rotating
Radding, Charles M.	Boston City (Harvard Service)	Medicine
Raitt, James W.	U. of Kansas Medical Center, Kansas City, Kansas	Mixed
Reich, Peter	Peter Bent Brigham, Boston	Medicine
Rohde, Russell A.	Los Angeles County, Los Angeles	Rotating
Rose, James A.	Massachusetts General, Boston	Medicine
Rosen, Saul W.	U. of California, San Francisco	Medicine
Rosenberg, Murray	Beth Israel, Boston	Medicine
Ross, John J.	Cleveland City	Rotating
Roth, Sanford I.	Massachusetts General, Boston	Pathology
Ryan, James H., Jr.	U. of California, San Francisco	Medicine
Sabath, Leon D.	Peter Bent Brigham, Boston	Medicine
Saidi, Parvin (Miss)	U. of California Hospital at Los Angeles	Medicine
Schatzki, Stefan C.	Boston City (Harvard Service)	Medicine
Schwob, Marianne F.	Bellevue (III Div.-N.Y.U.), New York City	Pediatrics
Sell, Kenneth W.	U. S. Navy, Bethesda, Md.	Rotating
Shafron, Melvin	University, Ann Arbor, Mich.	Rotating
Smith, Gardner W.	Johns Hopkins, Baltimore, Md.	Surgery
Snow, James B., Jr.	Johns Hopkins, Baltimore, Md.	Surgery
Sogg, Richard L.	Cleveland City	Rotating
Spencer, E. Martin	San Francisco (U. of California Service), San Francisco	Rotating
Spillane, John J. B.	Cleveland City	Rotating
Steinhardt, Rosalind	New England Center, Boston	Medicine
Stell, Robert B.	Barnes, St. Louis, Mo.	Surgery
Sterling, Roger A.	Veterans Administration, Los Angeles, Calif.	Rotating
Stiles, Claire M.	Postponed	
Strickler, William L.	Barnes, St. Louis, Mo.	Surgery
Stroud, Robert M.	Cook County, Chicago, Ill.	Rotating
Svoboda, Donald J.	U. of Kansas Medical Center, Kansas City, Kansas	Pathology

HARVARD UNIVERSITY

<i>Name</i>	<i>Hospital (and location)</i>	<i>Service</i>
Taira, Tom K.	University Hospitals, Columbus, Ohio	Rotating
Tashima, Charles K.	Bellevue (II Div.-Cornell), New York City	Medicine
Thamer, Mahmud A.	Baltimore City Hospitals	Rotating
Tucker, George L.	Barnes, St. Louis, Mo.	Surgery
Vine, Bernard G.	Jefferson Davis, Houston, Texas	Surgery
von Hippel, J. R.	George Washington U., Washing- ton, D. C.	Rotating
Walker, Jerome K.	V. A. Hospital, Boston	Surgery
Weinberg, Arnold	Massachusetts General, Boston	Medicine
White, Martin K.	Children's Medical Center, Boston	Pediatrics
Young, Charles W.	Bellevue (II Div.-Cornell), New York City	Medicine
Zehner, Harry, Jr.	U. of California, San Francisco	Surgery

MEDICAL SCHOOL
FOURTH CLASS (1957)

*Abel, Francis Lee, A.B. (<i>Univ. of Kansas</i>) 1952.	[State Univ. of Iowa College of Medicine].	Creston, Iowa
Adams, Thomas William, A.B. 1953.		Salem
Alexander, Sidney, A.B. (<i>Wesleyan Univ.</i>) 1953.		Hartford, Conn.
Altrocchi, Paul Hemenway, A.B. 1952.		Berkeley, Calif.
Aronow, Wilbert Solomon, S.B. (<i>Queens Coll.</i>) 1953.		Richmond Hill, N. Y.
Bair, Glenn Otis, A.B. 1953.		Wichita, Kansas
Baker, George Pierce, Jr., A.B. 1953.		Milton
Bihari, Bernard, A.B. (<i>Cornell Univ.</i>) 1953.	Far Rockaway,	N. Y.
Boulware, James Richmond, 3rd, S.B. (<i>Davidson Coll.</i>) 1953.		Lakeland, Fla.
Bray, George A., A.B. (<i>Brown Univ.</i>) 1953.		Winnetka, Ill.
*Brief, Donald Kent, A.B. (<i>Dartmouth Coll.</i>) 1954.	[Dartmouth Medical School].	South Orange, N. J.
Brunsting, Carl David, A.B. (<i>Univ. of Michigan</i>) 1953.	Rochester,	Minn.
Busfield, Bernard Lawrence, Jr., A.B. 1953 (1954).		Marblehead
Claes, Daniel John, A.B. 1953.		El Segundo, Calif.
Cox, William Henry, A.B. (<i>Univ. of Rochester</i>) 1953.	Lamesa,	Texas
*Crowe, John MacArthur, A.B. (<i>Dartmouth Coll.</i>) 1954.	[Dartmouth Medical School].	Montclair, N. J.
*Crum, Albert Bird, S.B. (<i>Univ. of Redlands</i>) 1953.	[Coll. of Medical Evangelists School of Medicine].	Los Angeles, Calif.
Curtis, Lon Ernest, A.B. 1953 (1952).		Fergus Falls, Minn.
Daniels, Charles William, S.B. (<i>Georgia Inst. of Technology</i>) 1949, S.M. (<i>Tulane Univ.</i>) 1953.		Mobile, Ala.
Davis, Brack, A.B. (<i>Columbia Univ.</i>) 1953.		Los Angeles, Calif.
Deykin, Daniel, A.B. 1953.		Great Barrington
*Dickerson, Donald Edward, A.B. (<i>Univ. of Missouri</i>) 1953, S.B. in Medicine (<i>ibid.</i>) 1955.	[Univ. of Missouri School of Medicine].	Kansas City, Mo.

* Transferred to third year class.

‡ Admitted on basis of three years' college work.

† Admitted on basis of two years' college work.

° Transferred to the second year class.

§ Admitted on basis of four years' college work (in several cases work for the degree completed).

HARVARD UNIVERSITY

- | | |
|--|------------------------|
| Ditmore, Dan Alan, A.B. (<i>Vanderbilt Univ.</i>) 1953. | Marshall, N. C. |
| Elovitz, Maurice Joseph, A.B. 1953. | Roxbury |
| Engle, Ralph Philip, Jr., A.B. (<i>Western Reserve Univ.</i>) 1953. | Fremont, Ohio |
| Fairfax, Charles Wilbur, 2nd, A.B. (<i>Princeton Univ.</i>) 1953. | Harvard |
| †Farrell, Thomas Edwin (<i>Duke Univ.</i>) | Sanford, N. C. |
| Fenster, Lajos Frederick, A.B. (<i>Stanford Univ.</i>) 1953. | San Francisco, Calif. |
| Finlayson, Norris Bryner, A.B. (<i>Yale Univ.</i>) 1953. | Seattle, Wash. |
| Folkman, Moses Judah, A.B. (<i>Ohio State Univ.</i>) 1953. | Columbus, Ohio |
| Freiberg, Richard Albert, A.B. 1953. | Cincinnati, Ohio |
| Friedland, Stephen Lester, A.B. (<i>Wesleyan Univ.</i>) 1953. | Jersey City, N. J. |
| *Galichich, Joseph Henry, Jr., A.B. (<i>Stanford Univ.</i>) 1954. [Stanford Univ. School of Medicine]. | Rock Springs, Wyo. |
| Gay, Ferdinand James, Jr., A.B. (<i>Stanford Univ.</i>) 1953. | Santa Monica, Calif. |
| Gergen, John Andrew, S.B. (<i>Yale Univ.</i>) 1953. | Durham, N. C. |
| Gill, Thomas James, 3rd, A.B. 1953. | Medford |
| *Gilson, Benjamin Jenks, A.B. (<i>Dartmouth Coll.</i>) 1954. [Dartmouth Medical School]. | Providence, R. I. |
| Gornel, Daniel Lewis, A.B. (<i>Pomona Coll.</i>) 1953. | Beverly Hills, Calif. |
| Gray, Daniel Friedlander, A.B. (<i>Hamilton Coll.</i>) 1953. | Niagara Falls, N. Y. |
| *Grayzel, Arthur Irwin, A.B. 1953. [New York Univ. College of Medicine]. | Brooklyn, N. Y. |
| Green, Gareth Montraville, A.B. 1953. | Brookline |
| Greenough, William Bates, 3rd, A.B. (<i>Amherst Coll.</i>) 1953. | Providence, R. I. |
| *Greganti, Frank Paul, s.b. (<i>Univ. of Mississippi</i>) 1954. [Univ. of Mississippi School of Medicine]. | Merigold, Miss. |
| Hall, Marie-Francoise Puvrez, B.Sc. (<i>McGill Univ.</i>) 1953. | Montreal, P.Q., Canada |
| Hall, Thomas Livingston, A.B. 1953. | Concord |
| *Harrod, David Bidwell, A.B. (<i>Miami Univ.</i>) 1953. [Hahnemann Medical School]. | New London, Ohio |
| Harrod, Emma Krall, A.B. (<i>Miami Univ.</i>) 1952. | Eaton, Ohio |
| Hartzell, Harry Erb, Jr., A.B. (<i>Princeton Univ.</i>) 1953. | London, England |
| Hellman, Dorothea Waelder, A.B. (<i>Radcliffe Coll.</i>) 1953. | Bethesda, Md. |

MEDICAL SCHOOL

- Hellman, Emanuel Scholem, A.B. 1953. *New York, N. Y.*
 Herrera-Acena, Manuel Guillermo, A.B. 1953. *Guatemala City, Guatemala*
- *Herrmann, John Bellows, A.B. (*Dartmouth Coll.*) 1954. [Dartmouth Medical School]. *Cincinnati, Ohio*
- Hill, George James, 2nd, A.B. (*Yale Univ.*) 1953. *Aberdeen, S. Dak.*
 Hinckley, Ralph Herrick, A.B. 1953. *Belmont*
- Holmes, David MacRae, A.B. 1953. *Oklahoma City, Okla.*
- *Horton, Edward Schurr, A.B. (*Dartmouth Coll.*) 1954. [Dartmouth Medical School]. *Hanover, N. H.*
- Hosford, Richard Gordon, A.B. (*Southern Methodist Univ.*) 1953. *Dallas, Texas*
- Hudnut, Herbert Beecher, Jr., A.B. (*Princeton Univ.*) 1953. *Detroit, Mich.*
- Huttenlocher, Peter Richard, A.B. (*Univ. of Buffalo*) 1953. *Buffalo, N. Y.*
- Jackson, Anna Charlotte, B.M.E. (*Rensselaer Polytechnic Inst.*) 1948,
 A.M. (*Univ. of Washington*) 1952. *Brooklyn, N. Y.*
- Josimovich, John Brigham, A.B. 1953. *Chicago, Ill.*
- Kartchner, Mark Martineau, s.B. (*Univ. of Arizona*) 1953. *St. David, Ariz.*
- *Kieger, Edward Frank, 2d, A.B. (*Dartmouth Coll.*) 1954. [Dartmouth Medical School]. *Chagrin Falls, Ohio*
- Kroll, Kenneth Melbourne, s.B. (*Rutgers Univ.*) 1953. *Woodland Hills, Calif.*
- Krooth, Robert Schild, A.B. (*Stanford Univ.*) 1948, DR.PHIL. (*Univ. of London*) 1952. *Chicago, Ill.*
- La Casce, Joseph Henry, s.B. (*Bowdoin Coll.*) 1946. *Fryeburg, Maine*
- Layzer, Robert Bertrand, A.B. 1953. *Cleveland Heights, Ohio*
- *Lee, Ting David, Jr., A.B. (*Dartmouth Coll.*) 1954. [Dartmouth Medical School]. *Portland, Ore.*
- Leith, David Evan, A.B. (*Lehigh Univ.*) 1953. *Bethlehem, Pa.*
- Lewis, John Leeman, Jr., A.B. 1952. *Houston, Texas*
- *Linfoot, John Ardis, A.B. (*Univ. of North Dakota*) 1953, s.B. and s.M.
 (*ibid.*) 1955. [Univ. of North Dakota School of Medicine]. *Grand Forks, N. Dak.*
- Lupien, Gordon Francis, A.B. 1953. *Brockton*
 Lynch, Mark Edward, A.B. 1953. *Norwood*

HARVARD UNIVERSITY

- *Markette, James Ralph, s.B. (*Univ. of Mississippi*) 1954. [Univ. of Mississippi School of Medicine]. *Brookhaven, Miss.*
- †Marshall, David Charles, (*Univ. of Michigan, Univ. of Calif.*). *Findlay, Ohio*
- McCusker, James Joseph, s.B. (*Boston Coll.*) 1953. *Waltham*
- McFee, Arthur Storer, A.B. 1953. *Cambridge*
- *McIntyre, Oswald Ross, A.B. (*Dartmouth Coll.*) 1953. [Dartmouth Medical School]. *Omaha, Nebr.*
- McKee, William Dinwiddie, A.B. (*Cornell Univ.*) 1953. *Littleton, Colo.*
- McNay, John Leeper, Jr., A.B. (*Yale Univ.*) 1953. *Kansas City, Mo.*
- Milde, Paul Arthur, A.B. 1953. *Cleveland Heights, Ohio*
- Miller, Abbott Richard, A.B. 1953. *Brookline*
- *Mohr, George Carl, A.B. (*Luther Coll.*) 1951, A.B. (*Hertford Coll. Oxford Univ.*) 1954 [Univ. of Oxford Medical School]. *Ridgeway, Iowa*
- Morris, Roger Helmick, A.B. 1953. *Tucson, Ariz.*
- Moss, Arthur Jay, A.B. (*Yale Univ.*) 1953. *White Plains, N. Y.*
- Mossman, Robert Garrett, A.B. (*Yale Univ.*) 1952. *Fort Wayne, Ind.*
- *Mueller, Gustave Charles Erich, s.B. (*Univ. of Wisconsin*) 1953. s.M. (*ibid.*) 1955. [Univ. of Wisconsin Medical School]. *Princeton, Wis.*
- *Neri, Mario Philip, A.B. (*Brown Univ.*) 1950. [Columbia Univ. College of Physicians and Surgeons]. *Providence, R. I.*
- †Norkin, Stanislav (*Univ. of Wuerzburg*). *Munick, Germany*
- Norton, Richard Allen, A.B. (*Yale Univ.*) 1951. *Wellesley Hills*
- O'Connor, Daniel John, Jr., A.B. 1953. *Lowell*
- Okezie, Okogbue, s.B. (*Iowa Wesleyan Coll.*) 1953. *Nigeria, B.W. Africa*
- Oliver, George Charles, Jr., A.B. 1953. *Jacksonville, Fla.*
- *Oneal, Robert Moore, A.B. (*Dartmouth Coll.*) 1954. [Dartmouth Medical School]. *Omaha, Nebr.*
- Onken, Henry Dralle, A.B. (*Princeton Univ.*) 1953. *University City, Mo.*
- Palmer, Robert Howard, A.B. (*Oberlin Coll.*) 1953. *Chicago, Ill.*
- Parker, John William, s.B. (*Univ. of Arizona*) 1953. *Morenci, Ariz.*
- Perrin, Jane Schutter, s.B. (*Syracuse Univ.*) 1952. *Schenectady, N. Y.*
- Pierce, Donald Shelton, A.B. 1953. *Castine, Maine*
- Pulerwitz, Leonard, A.B. (*Western Reserve Univ.*) 1953. *Queens Village, N. Y.*

MEDICAL SCHOOL

- Remensnyder, John Paul, Jr., A.B. (*Wesleyan Univ.*) 1953.
 Saugerties, N. Y.
- *Retzlaff, John A., s.B. (*Univ. of North Dakota*) 1955. [*Univ. of North Dakota School of Medicine*]. Jamestown, N. Dak.
- Rivers, Robert Joseph, Jr., A.B. (*Princeton Univ.*) 1953.
 Princeton, N. J.
- §Robertson, Ralph Dean, A.B. 1953 (1954). Bellingham, Wash.
- Rockett, Francis Xavier, s.B. (*Tufts Coll.*) 1953. Medford
- Rubenstein, Howard Stuart, A.B. (*Carleton Coll.*) 1953. Chicago, Ill.
- Saechew, Suilam, s.B. (*Univ. of Michigan*) 1952, s.M. (*ibid.*) 1953. Trang, Thailand
- Schneiderman, Lawrence Jerome, A.B. (*Yale Univ.*) 1953.
 White Plains, N. Y.
- Schotland, Donald Lewis, A.B. 1952. Newark, N. J.
- Schotland, Marilyn Goldfeder, A.B. (*Barnard Coll.*) 1953.
 New York, N. Y.
- Senger, Harry Lech, Jr., A.B. 1953. Cincinnati, Ohio
- Shapiro, Sandor Solomon, A.B. 1953. Brooklyn, N. Y.
- Sidel, Victor William, A.B. (*Princeton Univ.*) 1953. Trenton, N. J.
- Silbert, Jeremiah Eli, A.B. 1953. University Heights, Ohio
- *Silver, Randall Harding, s.B. (*Univ. of New Hampshire*) 1953. [Dartmouth Medical School]. Newport, N. H.
- Simmons, Richard Joseph, A.B. (*Princeton Univ.*) 1953.
 Springfield, N. J.
- Singleton, John Weir, A.B. (*Yale Univ.*) 1953. Denver, Colo.
- *Smith, George Virgil, s.B. (*Univ. of Mississippi*) 1955. [*Univ. of Mississippi School of Medicine*]. Jackson, Miss.
- ‡Smith, Norman Ty (*Harvard Coll.*). Fort Lauderdale, Fla.
- Smith, Sumner Arnold, A.B. 1953. Brighton
- [°]Snell, John Edward, A.B. 1953 [State Univ. of Iowa Coll. of Medicine]. Iowa City, Iowa
- Stern, Adolph, A.B. (*Temple Univ.*) 1948, A.M. (*Harvard Univ.*) 1949,
 PH.D. (*ibid.*) 1952. Asbury Park, N. J.
- Sullivan, Philip Richard, s.B. (*Coll. of the Holy Cross.*) 1953.
 Jamaica Plain
- Sutherland, Donald Wood, A.B. (*Amherst Coll.*) 1953. Drexel Hill, Pa.
- *Tannenbaum, Charles Shepard, A.B. (*Dartmouth Coll.*) 1954. [Dartmouth Medical School]. New York, N. Y.
- ‡Tashjian, Armen Haig, Jr. (*Yale Coll.*). Oswego, Ore.

HARVARD UNIVERSITY

- *Tepper, Lloyd Barton, A.B. (*Dartmouth Coll.*) 1954. [Dartmouth Medical School]. *Los Angeles, Calif.*
- Todd, James Stiles, A.B. 1953. *South Yarmouth*
- Van Buskirk, David, A.B. (*Yale Univ.*) 1953. *Pittsburgh, Pa.*
- von Hippel, Arndt Robert, S.B. (*Massachusetts Inst. of Technology*) 1953. *Weston*
- Wagman, Richard Jay, A.B. 1953. *New York, N. Y.*
- *†Wang, Shen-Kuang, (*National Central Univ.*) M.D. [National Central Univ. Medical College] 1945. *Nanking, China*
- Washburn, Thomas Campbell, A.B. (*Amherst Coll.*) 1953. *Denver, Colo.*
- Weber, George Spang, A.B. (*Princeton Univ.*) 1953. *Wyomissing, Pa.*
- *Weiser, Frank Morton, A.B. (*Dartmouth Coll.*) 1954. [Dartmouth Medical School]. *New York, N. Y.*
- Widrow, Sidney Harold, A.B. (*Dartmouth Coll.*) 1953. *Versailles, Conn.*
- Wilkie, George Hamilton, A.B. (*Williams Coll.*) 1953. *Westmount, P.Q. Canada*
- Williams, George Melville, A.B. (*Oberlin Coll.*) 1953. *Leonia, N. J.*
- Wolff, Anna Kris, A.B. (*Radcliffe Coll.*) 1953. *Stamford, Conn.*
- Wolff, Carl Theodore, A.B. (*Yale Univ.*) 1953. *New York, N. Y.*
- Wylie, Harold Worden, Jr., A.B. (*Park Coll.*) 1953. *New York Mills, N. Y.*
- *Yamaguchi, Donald Mitsuo, A.B. (*Univ. of Hawaii*) 1953. [Univ. of North Dakota School of Medicine]. *Maui, Hawaii*
- Yeoh, Chin Bor, A.B. (*Yale Univ.*) 1953. *Penang, Malaya*
- *Yurchak, Peter Michael, A.B. (*Univ. of Pennsylvania*) 1953. [Temple Univ. School of Medicine]. *Wheeling, W. Va.*

THIRD CLASS (1958)

- ‡Adkins, Howard Eugene (*Boise Jr. Coll., Coll. of Idaho*). *Meridian, Idaho*
- ‡Alden, Peter Dunham (*Harvard Coll.*). *Hempstead, N. Y.*
- *Anthonisen, Nicholas Rioch, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Hanover, N. H.*

* Transferred to third year class.

‡ Admitted on basis of three years' college work.

° Transferred to the second year class.

† Admitted on basis of two years' college work.

§ Admitted on basis of four years' college work (in several cases work for the degree completed).

MEDICAL SCHOOL

- *Barlow, John Ford, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Montville, N. J.*
- Bennett, Joe Claude, A.B. (*Howard Coll.*) 1954. *Birmingham, Ala.*
- ‡Blume, Sheila Bierman (*Cornell Univ.*). *Great Neck, N. Y.*
- Bodel, Phyllis Tuck, A.B. (*Radcliffe Coll.*) 1954. *Lakeville, Conn.*
- Bohrer, Stanley Paul, A.B. (*Univ. of Michigan*) 1954. *Washington, D. C.*
- Brown, Barton Alexander, A.B. (*Univ. of California*) 1954. *San Francisco, Calif.*
- *Bryan, John Stever, Jr., A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Plainsboro, N. J.*
- Burnett, Joseph Warren, A.B. (*Yale Univ.*) 1954. *Lancaster, Pa.*
- Butterfield, Donald Englund, A.B. (*Univ. of Chicago*) 1953. *Wauwatosa, Wis.*
- Caldwell, Peter Richard Briggs, A.B. (*Dartmouth Coll.*) 1954. *Putney, Vt.*
- Cannon, Paul Jude, A.B. (*Coll. of the Holy Cross*) 1954. *Ridgewood, N. J.*
- *Carpenter, Charles Bernard, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Melrose*
- Chandler, Hugh Pollard, A.B. 1954. *Auburndale*
- Cheever, Allen Williams, S.B. (*Carleton Coll.*) 1954. *Brookings, S. Dak.*
- *Christensen, David Dean, S.B. (*Univ. of Utah*) 1952. [Univ. of Utah College of Medicine]. *Stockton, Utah*
- ‡Cline, Martin Jay (*Univ. of Pennsylvania*). *Philadelphia, Pa.*
- Coggins, Cecil Hammond, A.B. (*Yale Univ.*) 1954. *Mare Island, Calif.*
- Collins, Calvin John, A.B. (*Williams Coll.*) 1954. *Melrose*
- Conovitz, Myron William, A.B. (*Yale Univ.*) 1954. *Flushing, N. Y.*
- *Cooper, Richard Gordon, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Albion, N. Y.*
- Corwin, Howard Alan, A.B. 1954. *Millburn, N. J.*
- *Deal, C Pinckney, Jr., A.B. (*Duke Univ.*) 1952, S.M. (*Wake Forest Coll.*) 1954. [Bowman Gray School of Medicine]. *Charlotte, N. C.*
- *DeCesare, William Ray, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Chatham, N. J.*
- Dettman, Prentiss Maurice, A.B. (*Albion Coll.*) 1954. *St. Ignace, Mich.*
- Drum, David Elam, S.B. (*Washington & Lee Univ.*) 1954. *Richmond, Va.*

HARVARD UNIVERSITY

- *Edwards, John Robert, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Westfield, N. J.*
- Ege, Günes Nurettin, A.B. (*American Coll. for Girls*) 1952, A.B. *Barnard Coll.*) 1954. *Istanbul, Turkey*
- Eilers, Elizabeth Anne, A.B. (*Radcliffe Coll.*) 1954. *Washington, D. C.*
- Elkins, William Lukens, A.B. (*Princeton Univ.*) 1954. *Bryn Mawr, Pa.*
- Eraklis, Angelo John, A.B. (*Bowdoin Coll.*) 1954. *Portland, Maine*
- Esmiol, Pattison, A.B. 1954. *Colorado Springs, Colo.*
- Feingold, David Stuart, A.B. 1954. *West Newton*
- Frommer, Peter Leslie, E.E. (*University of Cincinnati*) 1954. *Cincinnati, Ohio*
- Galt, John, A.B. (*Princeton Univ.*) 1954. *Pittsfield*
- Gebel, Peter Paul, S.B. (*Rutgers Univ.*) 1954. *Princeton, N. J.*
- Gifford, George Hussey, Jr., A.B. 1952. *Cambridge*
- Gilman, Robert Broff, A.B. (*Western Reserve Univ.*) 1953. *Shaker Heights, Ohio*
- Goldstone, Murray Austin, A.B. (*Hamilton Coll.*) 1954. *Rome, N. Y.*
- Goodman, Stephen Benyas (*Harvard Coll.*). *Milwaukee, Wis.*
- §Gravenstein, Joachim Stefan, (*Univ. of Bonn*). M.D. [Univ. of Bonn] 1951. *Berlin, Germany*
- Hafter, Sara Sheila, A.B. (*Brooklyn Coll.*) 1950, A.M. (*New School for Social Research*) 1954. *Brooklyn, N. Y.*
- *Haley, Edward Maurice, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Reading*
- *Hall, James Whitney, 3d., A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Traverse City, Mich.*
- *Harris, Hugh Smith, Jr., S.B. (*Univ. of Mississippi*) 1956. [Univ. of Mississippi School of Medicine]. *Cannonsburg, Miss.*
- Hatfield, Jeannette, S.B. (*McGill Univ.*) 1954. *Utica, N. Y.*
- Healey, Stephen James, 3d, A.B. 1954. *Newton*
- Hirschhorn, Richard Clark, A.B. 1954. *Longmeadow*
- Hofer, Myron Arms, 2d, A.B. 1954. *Rockport, Maine*
- Hood, William Boyd, Jr., S.B. (*Davidson Coll.*) 1954. *Wallace, N. C.*
- *Hutchinson, Bernard Thomas, A.B. (*West Virginia Univ.*) 1955, S.B. (*ibid.*) 1956. [West Virginia Univ. School of Medicine]. *Sutton, W. Va.*
- Hutchinson, Richard Chapell, A.B. 1952. *Providence, R. I.*
- Jacob, Harry Samuel, A.B. (*Reed Coll.*) 1954. *San Francisco, Calif.*

MEDICAL SCHOOL

- Jacoby, George Alonzo, Jr., A.B. (*Yale Univ.*) 1954. *Birmingham, Mich.*
- James, Lewis Paul, Jr., A.B. (*Yale Univ.*) 1954. *West Hartford, Conn.*
- Joseph, Jordan, A.B. 1954. *Roxbury*
- Kahn, Charles Sigmund, A.B. 1954. *Birmingham, Ala.*
- Kantor, Martin, A.B. (*Brown Univ.*) 1954. *Brooklyn, N. Y.*
- Karlan, Robert David, s.B. (*Univ. of Wisconsin*) 1954. *Flushing, N. Y.*
- *Kennedy, Joel Mayer, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Manchester, Conn.*
- Kisch, Arnold Immanuel, A.B. (*Columbia Univ.*) 1954. *New York, N. Y.*
- *Kister, Sven Jüri, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Riverside, Conn.*
- Kliman, Allan, A.B. 1954. *Mattapan*
- Kremen, Howard Myron, A.B. (*Univ. of Chicago*) 1952. *Chicago, Ill.*
- Lamie, Anita Marie, s.B. (*Univ. of New Hampshire*) 1954. *Bradford*
- Lang, David J., A.B. (*Swarthmore Coll.*) 1954. *Philadelphia, Pa.*
- Li, John Kung-Hsien, A.B. 1954. *Ankara, Turkey*
- Liebman, Leila, s.B. (*Tufts Coll.*) 1954. *Boston*
- Lindenbaum, John, A.B. (*Cornell Univ.*) 1954. *Harrison, N. Y.*
- Lipson, Charles Sidney, A.B. 1954. *Chestnut Hill*
- *Livingstone, John Bennett, A.B. (*Brown Univ.*) 1954. [Univ. Pennsylvania School of Medicine]. *Providence, R. I.*
- Lukens, John Nevins, Jr., A.B. (*Princeton Univ.*) 1954. *Birmingham, Ala.*
- Lynn, Gene Edison, A.B. (*Univ. of Illinois*) 1952, M.ED. (*ibid.*) 1954. *Evansville, Ind.*
- Madden, John William, s.B. (*Yale Univ.*) 1955. *Claremont, Calif.*
- Matthews, Norman Eakes, A.B. (*Haverford Coll.*) 1954. *Decatur, Ga.*
- Messer, Ronald James, A.B. 1954. *Polo, Ill.*
- Miller, Elliott Vaughn, s.B. (*Denison Univ.*) 1954. *Sioux Falls, S. Dak.*
- *Monahan, John Joseph, A.B. (*Dartmouth Coll.*) 1954. [Dartmouth Medical School]. *Erie, Pa.*
- Morgan, Clarence Lorenzo, s.B. (*Tufts Coll.*) 1954. *University City, Mo.*
- Morse, Edward Everett, A.B. 1954. *Gardner*
- *Morse, Robert Lawrence, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *Newbury*
- *Mossman, Philip Llewellyn, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. *West Lebanon, N. H.*

HARVARD UNIVERSITY

- Nance, Walter Elmore, s.B. (*Univ. of the South*) 1954.
 Oak Ridge, Tenn.
- Nidus, Bernard Dave, A.B. (*Columbia Univ.*) 1953. Bronx, N. Y.
- Noble, Walter Morris Hart, A.B. 1954. San Francisco, Calif.
- †Nowosiwskyj, Taras (*Columbia Coll.*). New York, N. Y.
- *Oppelt, Wolfgang Walter, A.B. (*Univ. of North Dakota*) 1955, s.B. (*ibid.*) 1956. [Univ. of North Dakota School of Medicine].
 Grand Forks, N. Dak.
- Parker, Albert Cushman, Jr., A.B. (*Columbia Univ.*) 1954.
 Union City, N. J.
- Patch, Vernon Duane, A.B. 1951. Agawam
- Patton, Anthony Seavey, A.B. 1954. Lexington
- *Pearl, Don Chester, Jr., s.B. (*Univ. of Washington*) 1955. [Univ. of Washington School of Medicine]. Seattle, Wash.
- Penick, Sydnor Barksdale, 3d, A.B. (*Princeton Univ.*) 1954.
 Montclair, N. J.
- Pierce, Rudolph Walter, s.B. (*U.S. Naval Academy*) 1951.
 Barrington, R. I.
- *Porvaznik, John Thomas, Jr., A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. Duquesne, Pa.
- Rabinowitz, Seymour, A.B. (*Wesleyan Univ.*) 1954. Hartford, Conn.
- Randall, Glenn Hubbard, s.B. (*Antioch Coll.*) 1954. Buffalo, N. Y.
- Ricketts, Howard James, A.B. (*Oberlin Coll.*) 1954. Chicago, Ill.
- *Rieselbach, Richard Edgar, s.B. (*Univ. of Wisconsin*) 1955. [Univ. of Wisconsin Medical School]. Milwaukee, Wis.
- Robinson, Stephen Howard, A.B. 1954. Brooklyn, N. Y.
- Rogers, Adrienne Ellefson, A.B. (*Radcliffe Coll.*) 1954.
 Columbus, Nebr.
- *Root, Allen William, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medical School]. Philadelphia, Pa.
- Rosson, Robert Stanley, A.B. (*Wesleyan Univ.*) 1954. Silver Spring, Md.
- Satin, David George, A.B. (*Princeton Univ.*) 1954. Brooklyn, N. Y.
- Schur, Peter Henry, A.B. (*Yale Univ.*) 1955. New York, N. Y.
- Shambaugh, Philip Wells, A.B. 1954. New York, N. Y.
- Shavelson, Robert William, A.B. (*Princeton Univ.*) 1954.
 Ventnor, N. J.
- Smith, Benjamin Vergon, Jr., A.B. (*Princeton Univ.*) 1954.
 Wilmington, Ohio
- Soffer, Richard Luber, A.B. (*Amherst Coll.*) 1954. New York, N. Y.

MEDICAL SCHOOL

- Solomon, Irene Leider, A.B. (*Radcliffe Coll.*) 1954. *Brooklyn, N. Y.*
 Solow, Charles, A.B. 1954. *New York, N. Y.*
 Sonnenblick, Edmund Hiram, A.B. (*Wesleyan Univ.*) 1954.
West Hartford, Conn.
 Sorokin, Sergei Pitirimovitch, A.B. 1954. *Winchester*
 Sproul, Lyman Edwin, Jr., A.B. 1954. *Erie, Pa.*
 *Stanley, John Allen, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth Medi-
 cal School]. *Lakewood, Ohio*
 Starke, Rodman David, A.B. (*Williams Coll.*) 1954. *Durham, N. H.*
 Sullivan, William Henry, A.B. (*Boston Coll.*) 1954. *Auburndale*
 Tichell, Robert Haskell, A.B. 1954. *Brookline*
 Tilles, Jeremiah Godfrey, A.B. 1954. *Seaside Heights, N. J.*
 *Todd, Joseph Chapman, S.B. (*Univ. of Mississippi*) 1956. [Univ. of
 Mississippi Medical School]. *Meridian, Miss.*
 Tollackson, Kenneth Alan, A.B. (*Whitman Coll.*) 1954.
Tacoma, Wash.
 Trucker, Earl Bruce, A.B. 1954. *Minneapolis, Minn.*
 Tulenko, John Francis, A.B. 1954. *Holyoke*
 Ullian, Robert Boris, A.B. 1954. *Brookline*
 Unger, Laurence Neil, A.B. (*Cornell Univ.*) 1954. *New York, N. Y.*
 Valeri, Charles Robert, S.B. (*Tufts Coll.*) 1954. *Leominster*
 von Hoyningen-Huene, Christian Berend, A.B. (*Bowdoin Coll.*) 1954.
Woolwich, Maine
 Von Kessler, Kirby Langston Chandler, A.B. 1954. *Santa Barbara, Calif.*
 *Wangensteen, Stephen Lightner, A.B. (*Univ. of Minnesota*) 1955,
 S.B. (*ibid.*) 1956. [Univ. of Minnesota Medical School].
Minneapolis, Minn.
 *Weintraub, Lewis Robert, A.B. (*Dartmouth Coll.*) 1955. [Dartmouth
 Medical School]. *Brooklyn, N. Y.*
 *White, Roy Christopher Anthony, A.B. (*Cambridge Univ., England*)
 1953. *Harrisburg, Pa.*
 *Wiggin, James Walker, Jr., A.B. (*Dartmouth Coll.*) 1955. [Dart-
 mouth Medical School]. *Manchester, N. H.*
 Wilde, Lawrence, A.B. 1954. *Berkeley, Calif.*
 Winter, Thorne Sherwood, 3d, A.B. (*Duke Univ.*) 1954. *Atlanta, Ga.*
 Wolfson, Sanford, A.B. (*William Coll.*) 1954. *Plainfield, N. J.*
 Wollman, Harry, A.B. 1954. *Philadelphia, Pa.*
 *Zimmon, David Samuel (*Emory Univ.*). [Emory Univ. School of
 Medicine]. *Miami, Fla.*

HARVARD UNIVERSITY

SECOND CLASS (1959)

Abroms, Gene Mayer, A.B. 1955.	Dermott, Ark.
Adelstein, Robert Simon, A.B. (<i>Princeton Univ.</i>) 1955.	New York, N. Y.
Amarasingham, Chandra-Raj, S.B. (<i>Univ. of Kentucky</i>) 1953.	Jaffna, Ceylon
°Angelakos, Evangelos Theodorou, Diploma (<i>Tripolis Coll.</i>) 1948, A.M. (<i>Boston University</i>) 1953, PH.D. (<i>ibid.</i>) 1956. [Athens Univ. Medical School].	Tripolis, Greece
Ault, Lynn Lyell, A.B. (<i>Wabash Coll.</i>) 1955.	Lima, Ohio
Baker, Frederick Sherman, A.B. 1955.	Hastings-on-Hudson, N. Y.
Barrett, James Elmer, Jr., A.B. 1955.	New York, N. Y.
Barten, Harvey Harold, A.B. 1955.	East Orange, N. J.
Barton, William Howard, A.B. (<i>Yale Univ.</i>) 1955.	Memphis, Tenn.
Beck, Kathryn Shaeffer, A.B. (<i>Radcliffe Coll.</i>) 1955.	Cleveland, Ohio
Beiles, Carl Myron, A.B. 1955.	Woodmere, N. Y.
Berard, Costan William, A.B. (<i>Princeton Univ.</i>) 1955.	Cranford, N. J.
Berger, Jacob Everett, A.B. 1955.	Brookline
Blacklow, Robert Stanley, A.B. 1955.	Belmont
Boden, Richard Evan, A.B. 1955.	Cleveland Heights, Ohio
Bostic, William Chivous, 3d, A.B. (<i>Univ. of North Carolina</i>) 1952.	Forest City, N. C.
Brown, Forest Elliott, S.B. (<i>Univ. of Notre Dame</i>) 1955.	New Albany, Ind.
Burden, Charles Earle, S.B. (<i>Yale Univ.</i>) 1955.	Bath, Maine
‡Burkhardt, Boyd Roberts (<i>Columbia Univ.</i> , <i>Stanford Univ.</i>)	Tipton, Ind.
Cage, Gary Walker, A.B. 1955.	Birmingham, Ala.
Carey, Robert Willard, A.B. (<i>Williams Coll.</i>) 1955.	Harrisburg, Pa.
Carey, Thomas Alan, A.B. 1955.	Denver, Colo.
Chirman, Savelly Samuel Boris, S.B. (<i>State Teachers Coll.</i> , Pa.) 1951, A.M. (<i>Univ. of Oregon</i>) 1952.	Hillsboro, Ore.
Clemens, Norman Andrew, A.B. (<i>Wesleyan Univ.</i>) 1955.	Wilkes-Barre, Pa.
Colberg, James Edward, A.B. (<i>Williams Coll.</i>) 1955.	Milwaukee, Wis.

‡ Admitted on basis of three years' college work.

° Transferred to the second year class.

MEDICAL SCHOOL

Conway, Richard Ellis, A.B. 1952.	<i>Salem</i>
Cooper, Alan James, A.B. (<i>Williams Coll.</i>) 1955.	<i>Plattsburg, N. Y.</i>
Cumberbatch, Rudolph St. Clair, s.B. (<i>Columbia Univ.</i>) 1955.	<i>Barbados, B.W.I.</i>
Darrell, Richard Wheeler, A.B. 1955.	<i>New York, N. Y.</i>
De la Cruz, Oscar Alexander, B.Sc. PHARMACY (<i>Univ. of Costa Rica</i>) 1950.	<i>San Jose, Costa Rica</i>
Dixon, James Kelley, 2d, s.B. (<i>Univ. of Alabama</i>) 1955.	<i>Talladega, Ala.</i>
Dowling, John Alan, A.B. 1955.	<i>Holyoke</i>
Downes, Hall, A.B. 1955.	<i>Bogota, Colombia</i>
Engelman, Karl, s.B. (<i>Rutgers Univ.</i>) 1955.	<i>Toms River, N. J.</i>
Epstein, Charles Joseph, A.B. 1955.	<i>Philadelphia, Pa.</i>
Epstein, Lois Barth, A.B. (<i>Radcliffe Coll.</i>) 1955.	<i>Brookline</i>
Esselstyn, Sarah Vosburgh, A.B. (<i>Vassar Coll.</i>) 1954.	<i>Claverack, N. Y.</i>
Eyring, Edward Joseph, A.B. (<i>Princeton Univ.</i>) 1955.	<i>Berkeley, Calif.</i>
Fern, Donald Joel, A.B. 1955.	<i>Forest Hills, N. Y.</i>
Galler, Floyd Bruce, A.B. 1955.	<i>Chicago, Ill.</i>
Glaser, Frederick Bernard, s.B. (<i>Univ. of Wisconsin</i>) 1955.	<i>Rochester, N. Y.</i>
Gold, Warren Maxwell, A.B. 1955.	<i>Wilmington, Del.</i>
Goldstone, Robert Allen, s.B. (<i>Univ. of Wisconsin</i>) 1955.	<i>New York, N. Y.</i>
Goss, Donald Arthur, A.B. (<i>Hamilton Coll.</i>) 1955.	<i>Albuquerque, N. Mex.</i>
Gundersen, Peter Mason, A.B. 1955.	<i>Brookline</i>
Hardison, William Gerry Morgan, A.B. 1955.	<i>Washington, D. C.</i>
Hayes, Robert Earl, 3d, s.B. (<i>Davidson Coll.</i>) 1955.	<i>Fayetteville, N. C.</i>
Haywood, Anne Mowbray, A.B. (<i>Bryn Mawr Coll.</i>) 1955.	<i>White Plains, N. Y.</i>
Herbst, Arthur Lee, A.B. 1953.	<i>Pittsburgh, Pa.</i>
Hobson, John Allan, A.B. (<i>Wesleyan Univ.</i>) 1955.	<i>West Hartford, Conn.</i>
Jeanes, Lincoln Douglas, Jr., A.B. (<i>Univ. of Texas</i>) 1952.	<i>Dallas, Texas</i>
“Jeanrenaud, Arlette, B.Sc. (<i>Univ. of Neuchatel</i>) 1953. [Univ. of Geneva, School of Medicine].	<i>Neuchatel, Switzerland</i>
Kelley, Richard Roy, A.B. (<i>Stanford Univ.</i>) 1955.	<i>Honolulu, Hawaii</i>
Kinds, Herbert Eugene, A.B. (<i>Williams Coll.</i>) 1955.	<i>Cleveland, Ohio</i>
Kris, Anton Oscar, A.B. (<i>Yale Univ.</i>) 1955.	<i>Stamford, Conn.</i>

HARVARD UNIVERSITY

Lamb, Thomas Wade, A.B. (<i>Yale Univ.</i>) 1955.	<i>Grosse Pointe, Mich.</i>
Lampert, Nelson Robert, A.B. 1954.	<i>Minot, N. Dak.</i>
Leape, Lucian Leroy, Jr., A.B. (<i>Cornell Univ.</i>) 1952.	<i>Pittsburgh, Pa.</i>
Leeman, Cavin Philip, A.B. 1952.	<i>Nyack, N. Y.</i>
Lees, Robert Spencer, A.B. 1955.	<i>New York, N. Y.</i>
Lessow, Herbert, A.B. (<i>Wesleyan Univ.</i>) 1951.	<i>Hartford, Conn.</i>
Levey, Raphael Hertz, A.B. (<i>Princeton Univ.</i>) 1955.	<i>Princeton, N. J.</i>
Li, Ting-Kai, A.B. (<i>Northwestern Univ.</i>) 1955.	<i>Cuidad Trujillo, Dominican Republic</i>
Lindem, Martin Carl, Jr., A.B. (<i>Amherst Coll.</i>) 1955.	<i>Salt Lake City, Utah</i>
Livant, Judy, A.B. (<i>Swarthmore Coll.</i>) 1955.	<i>New York, N. Y.</i>
Mahan, John Herman, A.B. 1953.	<i>Follansbee, W. Va.</i>
Maltsberger, John Terry, 3d, A.B. (<i>Princeton Univ.</i>) 1955.	<i>Cotulla, Texas</i>
Marinkovich, Vincent Anthony, s.B. (<i>California Inst. of Technology</i>) 1955.	<i>San Pedro, Calif.</i>
Marks, Ira, s.B. (<i>Bethany Coll.</i>) 1955.	<i>Brooklyn, N. Y.</i>
McCully, Kilmer Serjus, A.B. 1955.	<i>Alexandria, Va.</i>
McPeek, Jack Bucknam, A.B. 1955.	<i>Little Rock, Ark.</i>
Merrifield, John Fenn, A.B. 1955.	<i>Wilmette, Ill.</i>
Messinger, Eli Charles, A.B. (<i>Lafayette Coll.</i>) 1955.	<i>Brooklyn, N. Y.</i>
Michelson, Ann Morris, A.B. (<i>Smith Coll.</i>) 1955.	<i>Brooklyn, N. Y.</i>
Moseley, Roger Victor, A.B. (<i>Princeton Univ.</i>) 1955.	<i>Urbana, Ill.</i>
Mundth, Eldred Dean, s.B. (<i>Yale Univ.</i>) 1955.	<i>Janesville, Wis.</i>
Papanek, George Otto, A.B. (<i>Swarthmore Coll.</i>) 1953, A.M. (<i>Harvard Univ.</i>) 1955.	<i>New York, N. Y.</i>
Persky, Alan Donald, A.B. (<i>Princeton Univ.</i>) 1955.	<i>Jersey City, N. J.</i>
Pittman, Joseph Garretson, A.B. 1953.	<i>Orlando, Fla.</i>
Poutas, John David, A.B. 1955.	<i>Old Greenwich, Conn.</i>
Prichard, James William, A.B. (<i>Washington Univ.</i>) 1955.	<i>Independence, Mo.</i>
Rapoport, Stanley Isaac, A.B. (<i>Princeton Univ.</i>) 1954.	<i>Trenton, N. J.</i>
Raymond, George David, s.B. (<i>Univ. of Florida</i>) 1955.	<i>Daytona Beach, Fla.</i>
Reed, William Patrick, A.B. 1955.	<i>Washington, D. C.</i>
Reynolds, Stephen Leighton, A.B. 1955.	<i>Weston</i>
Rivlin, Richard Saul, A.B. 1955.	<i>Forest Hills, N. Y.</i>
Roach, John Jared, s.B. (<i>Allegheny Coll.</i>) 1955.	<i>Medina, N. Y.</i>

MEDICAL SCHOOL

- Robbins, Norman, A.B. (*Columbia Univ.*) 1955. *Forest Hills, N. Y.*
 Rodgers, John Barclay, Jr., A.B. (*Denison Univ.*) 1955.
Chagrin Falls, Ohio
- Rosenthal, Jerome, A.B. (*Columbia Univ.*) 1955. *Brooklyn, N. Y.*
 Rowe, Kenneth Wyer, Jr., A.B. (*Carleton Coll.*) 1955.
Glen Ellyn, Ill.
- Rush, David, A.B. 1955. *Jamaica, N. Y.*
 Ryan, James Warren, A.B. (*Montana State Univ.*) 1955.
Anchorage, Alaska
- Sanderson, Richard George, A.B. (*Wesleyan Univ.*) 1955. *Abington*
 Sapir, Paul Edward, A.B. 1950, A.M. 1952. *New Haven, Conn.*
 Schildkraut, Joseph Jacob, A.B. 1955. *Brooklyn, N. Y.*
 Schneider, Peter Bernard, A.B. 1955. *Brooklyn, N. Y.*
 Shepherd, Gordon Murray, S.B. (*Iowa State Coll.*) 1955. *Ames, Iowa*
 Sidd, James Jenson, A.B. 1955. *Brighton*
 Soltys, John Joseph, Jr., S.B. (*Univ. of Massachusetts*) 1953. *Holyoke*
 Spaeth, George Link, A.B. (*Yale Univ.*) 1954. *Philadelphia, Pa.*
 Spangler, Robert Alan, A.B. 1955. *Celina, Ohio*
 ‡Spencer, Roger Felix (*Yale Coll.*) *Kew Gardens, N. Y.*
 Spievack, Alan Robert, A.B. (*Kenyon Coll.*) 1955. *Cincinnati, Ohio*
 Steinhauer, Bruce William, A.B. (*Amherst Coll.*) 1955. *Toledo, Ohio*
 Taube, Irvin, S.B. (*Tufts Coll.*) 1955. *Portsmouth, N. H.*
 Taylor, Leland Harris Graham, A.B. (*Stanford Univ.*) 1955.
Oakland, Calif.
- Thompson, Edward Ivins Bradbridge, A.B. (*The Rice Institute*) 1955.
Houston, Texas
- Thornton, Richard Rollin, A.B. (*State Univ. of Iowa*) 1955.
Council Bluffs, Iowa
- Thron, Christopher Dennis, A.B. (*Dartmouth Coll.*) 1953, A.M. (*ibid.*)
 1955. *Paterson, N. J.*
- Urquhart, John, 3d, A.B. (*The Rice Institute*) 1955. *Dallas, Texas*
 Vaillant, George Eman, A.B. 1955. *Bloomfield Hills, Mich.*
 Vesell, Elliot Saul, A.B. 1955. *New York, N. Y.*
 Wareham, Klella Joan, A.B. (*Scripps Coll.*) 1953. *Iowa City, Iowa*
 Welland, Frederick Hurd, A.B. (*Princeton Univ.*) 1955.
Minneapolis, Minn.
- Williams, Harold Warren, Jr., S.B. (*Massachusetts Inst. of Technology*)
 1955. *Hyannis*

HARVARD UNIVERSITY

Zollinger, Robert Milton, Jr., A.B. 1955.
 Zwilling, William Frederick, A.B. 1955.

Columbus, Ohio
New York, N. Y.

FIRST CLASS (1960)

Alpers, David Hershel, A.B. 1956.	<i>Merion, Pa.</i>
Axelrod, David, A.B. 1956.	<i>Great Barrington</i>
Azadian, Harry Yeghishe, S.B. (<i>Tufts Univ.</i>) 1956.	<i>Cambridge</i>
Bank, Arthur, A.B. (<i>Columbia Coll.</i>) 1956.	<i>Middle Village, N. Y.</i>
Barr, Joseph Seaton, Jr., A.B. (<i>Princeton Univ.</i>) 1956.	<i>Newton Centre</i>
Barrett, John Smith, A.B. (<i>Haverford Coll.</i>) 1956.	<i>Pottsville, Pa.</i>
Barrett, Peter Van Doren, A.B. (<i>Univ. of California at Los Angeles</i>) 1956.	<i>Montrose, Calif.</i>
Barrie, Joseph Rollin, S.B. (<i>Yale Univ.</i>) 1956.	<i>Forest Hills, N. Y.</i>
Barth, Robert Hood, Jr., A.B. (<i>Princeton Univ.</i>) 1956.	<i>Ridgewood, N. J.</i>
Berne, Joel Edward, A.B. (<i>Bard Coll.</i>) 1956.	<i>Brooklyn, N. Y.</i>
Bernier, George Matthew, Jr., A.B. (<i>Boston Coll.</i>) 1956.	<i>Newton Centre</i>
Biehl, Robert Frank, S.B. (<i>Massachusetts Inst. of Technology</i>) 1956.	<i>Stamford, Conn.</i>
Binder, Sheldon Carl, A.B. 1956.	<i>Boston</i>
Birnbaum, Naomi Helen, A.B. (<i>Univ. of Chicago</i>) 1955, S.B. (<i>ibid.</i>) 1956.	<i>Brooklyn, N. Y.</i>
Buchanan, John Lawrence, A.B. (<i>Dartmouth Coll.</i>) 1953, A.B. (<i>Oxford Univ.</i>) 1956.	<i>Wray, Colo.</i>
Budd, Matthew Alan, A.B. (<i>Amherst Coll.</i>) 1956.	<i>Newton</i>
Bulger, Roger James, A.B. 1955	<i>Hollis, N. Y.</i>
§Bull, John Carraway, Jr. (<i>U.S. Naval Academy, Williams Coll.</i>).	<i>Alexandria, Va.</i>
Burrington, John Darwin, A.B. 1953 (1952), S.M. (<i>Univ. of Wisconsin</i>) 1953.	<i>Williamsburg, Va.</i>
Caviness, Verne Strudwick, A.B. (<i>Duke Univ.</i>) 1956.	<i>Raleigh, N. C.</i>
Chacko, John Chirakaikaran, S.B. (<i>Univ. of Redlands</i>) 1956.	<i>Delhi, India</i>
Chaffey, Ben Taft, A.B. (<i>Stanford Univ.</i>) 1953.	<i>Carmel, Calif.</i>

‡Admitted on basis of three years' college work.

§ Admitted on basis of four years' college work (in several cases work for the degree completed).

MEDICAL SCHOOL

Challoner, David Reynolds, S.B. (<i>Lawrence Coll.</i>) 1956.	
	<i>Green Bay, Wis.</i>
Chasin, Richard Melvin, A.B. (<i>Yale Univ.</i>) 1956.	<i>Brooklyn, N. Y.</i>
Cohen, Jordan Jay, A.B. (<i>Yale Univ.</i>) 1956.	<i>Kansas City, Mo.</i>
Cohen, Stephen Norris, S.B. (<i>Massachusetts Inst. of Technology</i>) 1956.	<i>Tuckahoe, N. Y.</i>
Colman, Robert Wolf, A.B. 1956.	<i>Neposnit, N. Y.</i>
Cox, James Floyd Wright, A.B. (<i>Swarthmore Coll.</i>) 1952.	<i>Philadelphia, Pa.</i>
Davis, Solon Edward, 3d, A.B. (<i>Vanderbilt Univ.</i>) 1955.	<i>Nashville, Tenn.</i>
Dobrow, Robert Jay, A.B. (<i>Columbia Coll.</i>) 1956.	<i>New York, N. Y.</i>
Donovan, John Arnold, Jr., A.B. (<i>Williams Coll.</i>) 1956.	<i>Rochester, N. Y.</i>
Eaton, John Monroe, A.B. (<i>Stanford Univ.</i>) 1956.	<i>Brookline</i>
Ellis, Charles Archibald, Jr., A.B. (<i>Coll. of the Holy Cross</i>) 1956.	<i>Hamden, Conn.</i>
Fishman, Lawrence Martin, A.B. 1955.	<i>Brooklyn, N. Y.</i>
Frank, Michael M, A.B. (<i>Univ. of Wisconsin</i>) 1956.	<i>Brooklyn, N. Y.</i>
Frey, Walter Willis, A.B. (<i>Transylvania Coll.</i>) 1956.	<i>Lexington, Ky.</i>
Friedberg, Richard Michael, A.B. 1956.	<i>New York, N. Y.</i>
Gelch, Melvyn M, A.B. (<i>Johns Hopkins Univ.</i>) 1956.	<i>Brooklyn, N. Y.</i>
Gittes, Ruben Foster, A.B. 1956.	<i>Melrose</i>
Goldstein, David Arthur, A.B. 1956.	<i>Jamaica Estates, N. Y.</i>
Green, Mary Jane, A.B. (<i>Hiram Coll.</i>) 1956.	<i>Wellington, Ohio</i>
Green, William Thomas, Jr., A.B. 1956.	<i>Belmont</i>
Greer, Robert Bruce, 3d., A.B. (<i>Haverford Coll.</i>) 1956.	<i>Renfrew, Pa.</i>
Grueninger, Walter Edward, A.B. (<i>Princeton Univ.</i>) 1954, A.M. (<i>Amherst Coll.</i>) 1956.	<i>Palisade, N. J.</i>
Halverstadt, Donald Bruce, A.B. (<i>Princeton Univ.</i>) 1956.	<i>Cleveland Heights, Ohio</i>
Hansen, Thomas Wilcox, A.B. (<i>Univ. of Chicago</i>) 1956.	<i>Hammond, Ind.</i>
Hechtman, Herbert Ben, A.B. (<i>Princeton Univ.</i>) 1956.	<i>Brooklyn, N. Y.</i>
Hoffman, Allan Augustus, A.B. (<i>Princeton Univ.</i>) 1956.	<i>Glen Rock, N. J.</i>
Holden, Robert Adams, S.B. (<i>Massachusetts Inst. of Technology</i>) 1956.	<i>Eastondale</i>
Holm, James Lorimer, A.B. (<i>Augustana Coll.</i>) 1956.	<i>Moline, Ill.</i>

HARVARD UNIVERSITY

‡Holmes, James Thoburn, Jr., (*Southwestern at Memphis*).

McKenzie, Tenn.

Horne, Eugenia, A.B. (*Univ. of Miami in Florida*) 1953, S.B. (*ibid.*)
1956. *Coral Gables, Fla.*

Houle, Roland Eugene, A.B. (*Coll. of the Holy Cross*) 1956. *Worcester*

Hughes, James Raymond, A.B. (*Stanford Univ.*) 1953. *Seattle, Wash.*

Hull, Franklin Eugene, A.B. (*Wooster Coll.*) 1956. *Canfield, Ohio*

Iavazzo, Ronald Eugene Stephan, A.B. 1956. *Providence, R. I.*

James, Douglas Harold, A.B. (*Denison Univ.*) 1956. *Toledo, Ohio*

Jeffery, Russell Lee, S.B. (*Boston Coll.*) 1956. *Malden*

Kaplan, Marshall Myles, S.B. (*Yale Univ.*) 1956. *Winthrop*

Kastin, Abba Jeremiah, A.B. 1956. *Cleveland Heights, Ohio*

Kingsbury, Richard Alan, S.B. (*Tufts Coll.*) 1956. *Taunton*

Kleiger, Robert Edward, A.B. (*Yale Univ.*) 1956. *Brooklyn, N.Y.*

Kurland, Morton David, A.B. (*Yale Univ.*) 1956. *Brooklyn, N. Y.*

LaMonte, Charles Southwick, A.B. 1956. *Columbus, Ohio*

Landé, Arnold Julius, A.B. (*Amherst Coll.*) 1953. *Columbus, Ohio*

Lawall, Martha Elizabeth, A.B. (*Oberlin Coll.*) 1956. *Oberlin, Ohio*

Leder, Philip, A.B. 1956. *Arlington, Va.*

Lehr, Roger Julian, A.B. 1956. *University City, Mo.*

Levin, Albert Bernard, A.B. 1956. *East Orange, N. J.*

Luhrs, Caro Elise, A.B. (*Swarthmore Coll.*) 1956. *South Orange, N. J.*

Martin, Robert Gene, A.B. 1956. *Los Angeles, Calif.*

McClintock, Richard Polson, Jr., A.B. (*Dartmouth Coll.*) 1956. *Medford*

Murphy, Paul John, A.B. 1955. *Roslindale*

Myler, Richard Karl, A.B. (*Yale Univ.*) 1956. *Longmeadow*

Neistadt, Arnold, A.B. 1956. *Newton Centre*

‡Nesburn, Anthony Bart (*Univ. of California at Los Angeles*). *Beverly Hills, Calif.*

Norden, Carl William, A.B. (*Columbia Univ.*) 1956. *Bronxville, N. Y.*

Ottinger, Leslie Wayne, A.B. (*Rice Inst.*) 1953. *Kerrville, Tex.*

Perkins, John Calvin, A.B. 1956. *Hampton, N. H.*

‡Perlroth, Mark Guido (*Univ. of Rochester*). *New York, N. Y.*

Polk, Hiram Carey, Jr., S.B. (*Millsaps Coll.*) 1956. *Jackson, Miss.*

Pollen, Daniel Aaron, A.B. 1956. *Fall River*

Powers, James Alan, A.B. 1956. *Evansville, Ind.*

Radin, Eric Leon, A.B. (*Amherst Coll.*) 1956. *Brooklyn, N. Y.*

‡Replogle, Robert Lee (*Cornell Coll.*). *Clear Lake, Iowa*

MEDICAL SCHOOL

Rogers, Richard Crosby, A.B. 1956.	Orinda, Calif.
Ruef, John Smith, A.B. (<i>Cornell Univ.</i>) 1953.	Lake George, N. Y.
Russell, Warren Milo, s.B. (<i>Univ. of Washington</i>) 1956.	Nampa, Idaho
Sack, Lawrence Carleton, A.B. 1956.	Worcester
Sagebiel, Richard Wallace, A.B. (<i>Yale Univ.</i>) 1956.	Dayton, Ohio
Salzer, John Mo, s.B. (<i>Univ. of Wisconsin</i>) 1956.	Cincinnati, Ohio
Sanger, Sirgay, A.B. 1956.	Brooklyn, N. Y.
Schaller, Robert Thomas, Jr., A.B. (<i>Yale Univ.</i>) 1956.	Barrington, Ill.
Schwartz, Gordon Francis, A.B. (<i>Princeton Univ.</i>) 1956.	Plainfield, N. J.
Segel, David Peter, A.B. 1956.	Newton
Shaka, George James, A.B. 1956.	Manchester, N. H.
Shirley, William Hale, A.B. (<i>Stanford Univ.</i>) 1956.	Stanford, Calif.
Shohet, Stephen Byron, A.B. 1956.	Brookline
Sigler, Stephen Jay, A.B. 1955.	Brooklyn, N. Y.
Silverman, Carl George, A.B. (<i>Williams Coll.</i>) 1956.	Brooklyn, N. Y.
Stason, William Boaz, s.B. (<i>Univ. of Michigan</i>) 1953.	Ann Arbor, Mich.
Steigbigel, Neal Hiram, A.B. (<i>Princeton Univ.</i>) 1956.	Brooklyn, N. Y.
Stenberg, Clayton Carroll, s.B. (<i>Univ. of New Hampshire</i>) 1956.	Berlin, N. H.
Tauraso, Nicholas Michael, s.B. (<i>Boston Coll.</i>) 1956.	Salem
Tevis, Duane Kinne, s.B. (<i>Univ. of Arizona</i>) 1956.	Tucson, Ariz.
Thorne, Melvyn Charles, A.B. (<i>Univ. of California</i>) 1956.	San Francisco, Calif.
Valentine, Fred Townsend, A.B. 1956.	Detroit, Mich.
Veit, Diana Jane, A.B. (<i>Cornell Univ.</i>) 1955.	Ithaca, N. Y.
Ward, Gene Arlan, s.B. (<i>Tufts Coll.</i>) 1956.	Orange
Watts, Hugh Godfrey, A.B. (<i>Princeton Univ.</i>) 1956.	Prince Rupert, B.C., Canada
Weltner, John Sigmund, A.B. 1956.	Woodmere, N. Y.
Wirtschafter, Jonathan Dine, A.B. (<i>Reed Coll.</i>) 1956.	Portland, Ore.
Woodruff, Robert Arnold, Jr., A.B. 1956.	Rochester, Mich.
Wurtman, Richard Jay, A.B. (<i>Univ. of Pennsylvania</i>) 1956.	Philadelphia, Pa.
Yedvab, Jay Okun, A.B. (<i>Alfred Univ.</i>) 1956.	Woodridge, N. Y.

HARVARD UNIVERSITY

SUMMARY, 1956-1957

Fourth Year	144
Third Year	138
Second Year	118
First Year	115
Total	515

COLLEGES REPRESENTED

Alabama, University of	1	Cambridge University (England)	1
Albion College	1	Carleton College	3
Alfred University	1	Chicago, University of	4
Allegheny College	1	Cincinnati, University of	1
American College for Girls (Istanbul)	1	College of the Holy Cross	4
Amherst College	10	College of Idaho	1
Antioch College	1	Columbia University	12
Arizona, University of	3	Cornell College	1
Augustana College	1	Cornell University	8
Bard College	1	Costa Rica, University of	1
Barnard College	2	Dartmouth College	36
Bethany College	1	Davidson College	3
Boise Jr. College	1	Denison University	3
Bonn, University of	1	Duke University	4
Boston College	5	Emory University	1
Boston University	1	Florida, University of	1
Bowdoin College	3	Georgia Institute of Technology .	1
Brooklyn College	1	Hamilton College	3
Brown University	4	Harvard College	152
Bryn Mawr College	1	Haverford College	3
Buffalo, University of	1	Hawaii, University of	1
California Institute of Tech- nology	1	Hiram College	1
California, University of	3	Howard College	1
California, University of (at Los Angeles)	2	Illinois, University of	1
		Iowa State College	1
		Iowa, State University of	1

MEDICAL SCHOOL

Iowa Wesleyan College	1	Rice Institute	3
Johns Hopkins University	1	Rochester, University of	2
Kansas, University of	1	Rutgers University	3
Kentucky, University of	1	Scripps College	1
Kenyon College	1	Smith College	1
Lafayette College	1	Southern Methodist University	1
Lawrence College	1	Southwestern at Memphis	1
Lehigh University	1	Stanford University	11
London, University of (England)	1	State Teachers College (Pa.)	1
Luther College	1	Swarthmore College	5
Massachusetts Institute of Technology	5	Syracuse University	1
Massachusetts, University of	1	Temple University	1
McGill University (Canada)	2	Texas, University of	1
Miami, University of (Florida)	1	The South, University of	1
Miami University (Ohio)	2	Transylvania College	1
Michigan, University of	5	Tripolis College (Greece)	1
Millsaps College	1	Tufts College	8
Minnesota, University of	1	Tulane University	1
Mississippi, University of	5	United States Naval Academy	2
Missouri, University of	1	Utah, University of	1
Montana State University	1	Vanderbilt University	2
National Central University (China)	1	Vassar College	1
Neuchatel, University of (Switzerland)	1	Wabash College	1
New Hampshire, University of	1	Washington and Lee University	1
New School for Social Research	3	Washington University	1
North Carolina, University of	1	Washington, University of	3
North Dakota, University of	1	Wesleyan University	10
Northwestern University	3	West Virginia University	1
Notre Dame, University of	1	Western Reserve University	3
Oberlin College	1	Whitman College	1
Ohio State University	4	Williams College	11
Oregon, University of	1	Wisconsin, University of	8
Oxford, University of (England)	1	Wake Forest College	1
Park College	2	Wooster College	1
Pennsylvania, University of	1	Wuerzburg, University of (Germany)	1
Pomona College	3	Yale University	36
Princeton University	33	Total	533
Queens College	1	Counted more than once	18
Radcliffe College	8	Total number of students	515
Redlands, University of	2	Entered advanced standing	65
Reed College	2	Number of colleges represented	128
Rensselaer Polytechnic Institute	1	Number of college graduates	494
		Number of non-graduates	20

HARVARD UNIVERSITY

MEDICAL SCHOOLS REPRESENTED BY STUDENTS
WHO ENTERED SCHOOL WITH ADVANCED
STANDING

Athens University	1	New York University	1
Bonn, University of (Germany) .	1	North Dakota, University of .	4
Bowman Gray	1	Oxford, University of (Eng-	
Cambridge, University of (Eng-		land)	1
land)	1	Pennsylvania, University of .	1
Columbia University	1	Stanford University	1
Dartmouth College	32	Temple University	1
Emory University	1	Utah, University of	1
Geneva, University of	1	Washington, University of .	1
Hahnemann Medical College .	1	Wisconsin, University of . . .	2
Iowa, State University of . . .	2	West Virginia University . . .	1
Medical College of Evangelists .	1		
Minnesota, University of . . .	1	Total	65
Mississippi, University of . . .	5	Total number of students ad-	
Missouri, University of	1	mitted to first year standing	450
National Central University (China)	1		
		Total	515

SCHOOL OF DENTAL MEDICINE

ANNOUNCEMENT OF COURSES

DIVISION OF STUDIES

TOTAL NUMBER OF HOURS FOR EACH SUBJECT

FIRST YEAR

See

Medical
Curriculum

THIRD YEAR

Lectures
and/or
Demonstrations

Oral histology and pathology	32
Dental anatomy	20
Radiology	12
Operative dentistry	52
Oral hygiene and prophylaxis	6
Prosthetic dentistry	
Complete denture prosthesis	44
Removable partial prosthesis	22
Dental medicine	32
Dental medicine, Massachusetts General Hospital	4
Oral diagnosis	52
Periodontics	26
Oral surgery	3
Oral surgery, anaesthesia	8
Pediatric dentistry	12
Orthodontics	37
Endodontics	14
Introduction to dental research	10
Student research and seminar	16
Nutrition	8
Dental public health	24
Correlation of above subjects to clinical practice ..	744

SECOND YEAR

See

Medical
Curriculum

FOURTH YEAR

Lectures
and/or
Demonstrations

Radiology	8
Operative dentistry	24
Prosthetic dentistry	
Complete and removable denture prosthesis	16
Fixed partial prosthesis ..	56
Dental medicine	26
Clinical clerkship, Massachusetts General Hospital	88
Oral diagnosis	60
Periodontics	8
Dental materia medica	16
Oral surgery and anaesthesia	32
Pediatric dentistry at the Children's Hospital	32
Orthodontics	24
Endodontics	10
Student research and seminar	16
Practice management and dental jurisprudence ..	6
Correlation of above subjects to clinical practice ..	756

HARVARD UNIVERSITY

The tabulated hours above indicate the approximate allotment of time for the third and fourth academic years in the School of Dental Medicine.

As the entering classes are limited, it is possible to reduce the time usually involved in courses of dental techniques. Individual instruction, demonstrations, seminars and conferences replace the traditional lecture system to a large degree.

ORAL HISTOLOGY AND PATHOLOGY

REIDAR F. SOGNNAES, Ph.D., D.M.D., *Charles A. Brackett Professor of Oral Pathology and Associate Dean.*

JOHN T. ALBRIGHT, D.D.S., *Research Associate in Oral Pathology.*

PAUL GOLDHABER, D.D.S., *Associate in Oral Pathology.*

PETER K. YEN, D.D.S., D.M.D., *Assistant in Oral Pathology.*

BENGT O. ENGFELDT, M.D., *Lecturer on Pathology in the School of Dental Medicine.* (Resigned Sept. 1, 1956).

Oral Histology and Pathology — 3rd and 4th years.

The teaching in the third year begins with a microscopic laboratory course and a series of discussions devoted to the histology and pathology of the tissues of the oral cavity and is augmented in the third and fourth years by the clinical teaching staff through many activities in the clinic and in the hospitals.

DENTAL ANATOMY

MYRON J. VAN LEEUWEN, D.D.S., *Assistant Professor of Operative Dentistry and Director of Clinic.*

Dental Anatomy — 1st semester 3rd year.

Instruction in dental anatomy and tooth morphology. Special emphasis is placed on individual tooth form and the relationship of the tooth to adjacent teeth, opposing teeth and supporting tissue. Technique practice in reproduction of tooth form is stressed using natural extracted teeth.

RADIOLOGY

HERMAN DEWILDE, M.D., D.M.D., *Clinical Associate in Oral Surgery.*

SCHOOL OF DENTAL MEDICINE

Radiology — 3rd and 4th years.

Principles of applied roentgenology and the interpretation of radiographs, with consideration of the electro-physical basis of roentgenology, are covered in the third year. Practice in radiological technique is given in both years.

OPERATIVE DENTISTRY

G. EARL THOMPSON, D.M.D., *Associate Clinical Professor of Operative Dentistry.*

MYRON J. VAN LEEUWEN, D.D.S., *Assistant Professor of Operative Dentistry and Director of Clinic.*

JOHN V. BLASI, D.M.D., *Clinical Associate in Operative Dentistry.*

JAMES W. ETHERINGTON, D.M.D., *Clinical Associate in Operative Dentistry.*

GERALD L. O'NEILL, D.M.D., *Clinical Associate in Operative Dentistry.*

CHARLES L. BOYERS, JR., D.M.D., *Instructor in Pediatric Dentistry.*

C. KENNETH LASHER, D.M.D., *Instructor in Operative Dentistry.*

ABRAHAM SCHWARTZ, D.M.D., *Instructor in Operative Dentistry.*

ERNEST E. ADAMS, D.M.D., *Assistant in Operative Dentistry.*

ROBERT J. MATUSOW, D.M.D., *Assistant in Operative Dentistry.*

J. HOWARD OAKS, D.M.D., *Assistant in Operative Dentistry.*

Operative Dentistry — 3rd and 4th years.

Early student-patient contact and immediate clinical application of learned technical procedures are emphasized. In the third year instruction is given in oral hygiene, accepted methods of dental prophylaxis and technique of cavity preparation in conjunction with a study of the various types of restorative materials.

In the fourth year gold foil technique is given, and clinical practice in all phases of operative procedure is continued.

PROSTHETIC DENTISTRY

ARTHUR M. MALONEY, D.M.D., *Associate Professor of Prosthetic Dentistry.*

JOSEPH P. JAZOWSKI, D.M.D., *Assistant Clinical Professor of Prosthetic Dentistry.*

HARVARD UNIVERSITY

HAROLD L. EHRLICH, D.M.D., *Clinical Associate in Prosthetic Dentistry.*

DAVID J. FARRELL, D.M.D., *Clinical Associate in Prosthetic Dentistry.*

HERBERT BERMAN, D.M.D., *Instructor in Prosthetic Dentistry.*

ROY L. MCINTOSH, D.M.D., *Instructor in Prosthetic Dentistry.*

EMILE C. A. SAMAHA, D.M.D., *Instructor in Prosthetic Dentistry.*

HUGH BURDETTE, D.M.D., *Assistant in Prosthetic Dentistry.*

GEORGE H. WYSHAK, PH.D., D.M.D., *Assistant in Prosthetic Dentistry.*

DOUGLAS A. ATWOOD, M.D., D.M.D., *Research Associate in Prosthetic Dentistry.*

Prosthetic Dentistry — 3rd and 4th years.

Prosthetic dentistry which includes complete, fixed and removable prosthesis is taught in the third and fourth years. Through lectures, conferences and demonstrations the student receives clinical and laboratory instruction in the anatomy and physiology of the mouth as it applies to prosthetic dentistry, and in the materials and techniques of prosthetic restoration directed toward oral health, function and aesthetics. Every effort is made to provide early clinic contacts and to teach technique on clinic cases. The high teacher-student ratio, small classes and special physical facilities favor this type of instruction.

DENTAL MEDICINE

DAVID WEISBERGER, D.M.D., M.D., *Professor of Dental Medicine and Chief of the Dental Department at the Massachusetts General Hospital.*

HENRY D. EPSTEIN, D.M.D., *Instructor in Dental Medicine.*

NORMAN TRIEGER, D.M.D., *Instructor in Dental Medicine.*

OWEN W. KITE, D.M.D., *Assistant in Dental Medicine.*

LESLIE M. OHMART, PH.G., PH.C., *Lecturer on Dental Medicine.*

Dental Medicine — 3rd and 4th years.

A course devoted to the diagnosis and treatment of oral diseases, i.e., diseases of the periodontium, dental pulp, oral mucosa and other oral structures together with their correlation to systemic conditions.

SCHOOL OF DENTAL MEDICINE

Lectures, seminars, clinical practice and observation both in the Dental Infirmary and at the Massachusetts General Hospital.

Infirmary procedures, identification of oral structures, methods of oral examination, history taking, and common methods of diagnosis for dental and oral disease are given in both years, supplemented by practice in the general clinic.

Periodontics — 3rd and 4th years.

Emphasis is placed on the recognition and correction of systemic factors contributing to diseases of the supporting structures of the teeth.

Various methods in local treatment are taught and applied in the clinic. The care of the entire patient is stressed.

Dental Materia Medica — 2nd semester 4th year.

Specific consideration of dental problems and development of formulary for clinical dentistry, in addition to coverage of practical therapeutic problems in the general clinic.

ORAL SURGERY

DAVID WEISBERGER, D.M.D., M.D., *Professor of Dental Medicine and Chief of the Dental Department at the Massachusetts General Hospital.*

HERMAN DEWILDE, M.D., D.M.D., *Clinical Associate in Oral Surgery.*

GEORGE CHRISTMAN, D.M.D., *Instructor in Oral Surgery.*

WALTER C. GURALNICK, D.M.D., *Instructor in Oral Surgery.*

RICHARD L. MINER, D.D.S., *Instructor in Oral Surgery.*

ROBERT C. LINCOLN, D.M.D., *Assistant in Oral Surgery.*

Oral Surgery — 3rd and 4th years.

The students are taught through lectures and seminars the principles of surgery as applied to exodontia, minor oral surgery, maxillo-facial surgery and fractures and anaesthesia.

Individual clinical instruction in exodontia, minor oral surgery and anaesthesia is given at the Dental Infirmary.

In the fourth year students are assigned to the Massachusetts General Hospital as clinical clerks on the Dental Service. At the hospital

HARVARD UNIVERSITY

more extensive surgery of the oral cavity including traumatic injuries to the face and jaws is observed. The student takes active part in the study and treatment of such cases.

PEDIATRIC DENTISTRY

PAUL K. LOSCH, D.D.S., *Associate Professor of Pediatric Dentistry at the Children's Hospital and Chief of Dental Service, Children's Medical Center.*

CHARLES L. BOYERS, JR., D.M.D., *Instructor in Pediatric Dentistry.*

CHARLES E. HATCH, D.M.D., *Lecturer on Pediatric Dentistry.*

Affiliated:

SIDNEY FARBER, M.D., *Professor of Pathology at the Children's Hospital.*

ROBERT E. GROSS, M.D., D.Sc. (hon.), *William E. Ladd Professor of Child Surgery and Head of the Department at the Children's Hospital.*

CHARLES A. JANEWAY, M.D., *Thomas Morgan Rotch Professor of Pediatrics.*

EDWARD B. D. NEUHAUSER, M.D., *Associate Clinical Professor of Radiology.*

Pediatric Dentistry — 3rd and 4th years.

Those phases of operative dentistry, oral hygiene, and preventive care applicable to young children are carried on in the general clinic in the Dental Infirmary of the School. Special lectures and demonstrations in pediatric dentistry including instruction in growth and development of the head and face are given in the third year. A course in dental pediatrics given in the fourth year is designed to cover those phases of systemic and oral disease best seen under hospital conditions and is conducted at The Children's Medical Center. Cases involving oral manifestations of systemic disease receive special consideration. Students attend regular hospital conferences in surgery, clinical pathology, roentgenology and medicine. Medical and dental ward rounds are made.

SCHOOL OF DENTAL MEDICINE

ORTHODONTICS

MELVIN I. COHEN, D.M.D., *Assistant Clinical Professor of Orthodontics.*

LENNARD T. SWANSON, D.M.D., *Clinical Associate in Orthodontics.*

JULIAN M. ROTHBLATT, D.M.D., *Instructor in Orthodontics.*

EDWARD I. SILVER, D.M.D., *Lecturer on Orthodontics.*

ARTHUR G. STEINBERG, PH.D., *Lecturer on Orthodontics.*

HERBERT WELLS, D.M.D., *Milton Research Fellow in Orthodontics.*

Orthodontics — 3rd and 4th years.

Clinical instruction consists in the observation of developing dentures, the use of preventive measures and the use of selected orthodontic treatment procedures by each student. Emphasis is placed on the development of sound clinical judgment as a basis for the selection and care of orthodontic patients within the scope of general practice. Opportunity is provided for experience beyond the required minimum for those students with special interest and ability. Discussions and demonstrations supplement the work of the clinic. Each student is required to present a paper in seminar during his junior year and in the last semester of the senior year each student is responsible for the presentation of one or more cases he has treated during his clinical years. In addition to lectures on growth and development, mechanotherapy, and tissue response to tooth movement, lectures and demonstrations are given in cephalometrics, cleft palate, and surgical orthodontics. Observation of a great variety of orthodontic treatments is provided at The Children's Medical Center.

ENDODONTICS

GERALD L. O'NEILL, D.M.D., *Clinical Associate in Operative Dentistry.*

ROBERT J. MATUSOW, D.M.D., *Assistant in Operative Dentistry.*

Endodontics — 3rd and 4th years.

In the third year the clinical and pathological presentation of pulpal-periapical disease is integrated with the teaching of oral pathology. In this manner the student achieves an early appreciation of the patho-

HARVARD UNIVERSITY

logical course of events and the clinical symptoms which necessitate endodontic therapy.

In the fourth year diagnostic conferences and clinical experience involving conservative pulp canal therapy round out the student's introduction to the field.

DENTAL RESEARCH

Roy O. GREEP, Ph.D., Professor of Anatomy in the School of Dental Medicine.

JOHN B. MACDONALD, D.D.S., Ph.D., Professor of Oral Microbiology in the School of Dental Medicine and Director of the Forsyth Dental Infirmary for Children.

REIDAR F. SOGNNAES, Ph.D., D.M.D., Charles A. Brackett Professor of Oral Pathology.

DAVID WEISBERGER, D.M.D., M.D., Professor of Dental Medicine.

PAUL L. MUNSON, Ph.D., Associate Professor of Pharmacology in the School of Dental Medicine.

JAMES H. SHAW, Ph.D., Associate Professor of Biological Chemistry in the School of Dental Medicine.

PASQUALE JAMES COSTA, Ph.D., M.D., Instructor in Pharmacology in the School of Dental Medicine.

PHILIP F. HIRSCH, Ph.D., Instructor in Pharmacology in the School of Dental Medicine.

VIRGINIA M. FISKE, Ph.D., Research Associate in Dental Medicine.

SAMUEL FRIEDMAN, Ph.D., Research Associate in Pharmacology in the School of Dental Medicine.

RICHARD C. WOLF, Ph.D., Research Fellow in Dental Medicine.

Introduction to Dental Research — 1st semester 3rd year.

A series of ten or more one-hour lectures on specific research projects available for student participation in the research laboratories of the School of Dental Medicine.

Research Project — 3rd and 4th years.

In order to gain a more realistic appreciation of the nature of scientific research, all students of the Harvard School of Dental Medicine, as a requirement for graduation, participate in a laboratory or clinical investigation of their own choosing. By the end of the first semester

SCHOOL OF DENTAL MEDICINE

of the third year, after completion of the course, Introduction to Dental Research, the student has chosen a research supervisor from the faculty and the subject to be investigated. He presents a plan for his research project in the form of a seminar at the beginning of the second semester. During the rest of the third year, and in some cases during the summer months, he attempts to master the techniques necessary for his work. During the fourth year, with the advice and aid of the faculty research supervisor, the project is carried forward, and at the end of the year, the student presents a seminar summarizing his results. Both the third- and fourth-year seminars are also required in written form for permanent reference in the Library.

NUTRITION

JAMES H. SHAW, PH.D., *Associate Professor of Biological Chemistry in the School of Dental Medicine.*

AINA M. AUSKAPS, D.D.S., D.M.D., *Instructor in Dental Medicine.*

NORMAN P. WILLETT, PH.D., *Assistant in Dental Medicine.*

Nutrition — 1st and 2nd semesters 3rd year.

Discussion of relations of nutrition to the development, maturation and maintenance of the oral tissues. Discussion of nutritional requirements, relative values of various foods and the preparation of diet histories. Clinic practice in the evaluation of diet histories and in the development of suitable recommendations for the patient.

PUBLIC HEALTH DENTISTRY

JAMES M. DUNNING, D.D.S., M.P.H., *Lecturer on Public Health Dentistry.*

WILLIAM D. WELLOCK, D.M.D., M.P.H., *Lecturer on Public Health Dentistry.*

Affiliated:

JOHN E. GORDON, M.D., *Professor of Preventive Medicine and Epidemiology, S.P.H.*

DAVID D. RUTSTEIN, M.D., *Professor of Preventive Medicine.*

FRANZ GOLDMANN, M.D., *Associate Professor of Medical Care, S.P.H.*

HARVARD UNIVERSITY

W. FRED MAYES, M.D., M.P.H., *Associate Professor of Public Health Practice, S.P.H.*

Dental Public Health — 3rd year.

Public health principles and practices with emphasis on the participation of the dentist. Elements of biostatistics and epidemiology. Lectures, seminars and field work.

PRACTICE MANAGEMENT AND DENTAL JURISPRUDENCE

JAMES M. DUNNING, D.D.S., M.P.H., *Lecturer on Public Health Dentistry.*

Affiliated:

RICHARD FORD, M.D., *Assistant Professor of Legal Medicine.*

Practice Management and Dental Jurisprudence — 2nd semester 4th year.

Lectures and seminars on practice management, ethics and jurisprudence.

ON JUNE 14, 1956, THIRTEEN DEGREES WERE CONFERRED
AS FOLLOWS:

D.M.D.

Sumner Cohen, A.B. 1952.	Port Jefferson, N. Y.
Richard Alan Edelstein, A.B. 1952.	Brooklyn, N. Y.
Alex Harris Halperin, B.Sc. (<i>McGill Univ.</i>) 1951, M.S.C. (<i>ibid.</i>) 1952.	Montreal, P.Q., Canada
Ernest Hausmann, A.B. (<i>New York Univ.</i>) 1951.	Boston
Robert Jacques Matusow, A.B. (<i>Rutgers Univ.</i>) 1944, S.M. (<i>Univ. of Michigan</i>) 1950.	Ann Arbor, Mich.
Thomas Hugh McQueen, S.B. (<i>Pennsylvania State Coll.</i>) 1952.	Mifflinburg, Pa.
Elenore Ruth Sade, S.B. (<i>Simmons Coll.</i>) 1952.	Concord
Irwin Ship (<i>Columbia Univ. Coll. of Pharmacy</i>)	New York, N. Y.
†Martin Stern (<i>Utica Coll. of Syracuse Univ.</i>)	Utica, N. Y.

‡ Admitted on basis of three years' college work.

* Transferred to third class.

SCHOOL OF DENTAL MEDICINE

D.M.D *cum Laude*

- Hugh Burdette, b.s. (*Univ. of Alabama*) 1953. Beckley, W. Va.
James Howard Oaks, a.b. (*Wesleyan Univ.*) 1952. Collingswood, N. J.
George Habeeb Wyshak, a.b. 1947, a.m. (*Boston Univ.*) 1949, ph.d.
(*Univ. of California*) 1952. Natick

D.M.D. *cum Laude* for Thesis in a Special Field

- Herbert Wells, A.B. (*Yale Univ.*) 1952. New Haven, Conn.

Fourth Class

Third Class

- *Beck, Joseph Fledel, M.A. (*Univ. of Breslau*) 1946, [Univ. of Nebraska Coll. of Medicine].
Cohen, Carl Greenfield, A.B. (*Univ. of California at Los Angeles*) 1954.
Newton
Far Rockaway, N.Y.

HARVARD UNIVERSITY

Gold, Bernard Donald, A.B. (<i>New York Univ.</i>) 1952.	<i>Brooklyn, N. Y.</i>
Goldberg, Morton Harold, B.S. (<i>Univ. of Massachusetts</i>) 1954.	<i>Springfield</i>
Keller, Andrew Zellus, B.S. (<i>Morehouse Coll.</i>) 1949.	<i>Chattanooga, Tenn.</i>
Leach, Leon Benjamin, A.B. (<i>Brown Univ.</i>) 1952, M.S. (<i>Univ. of Rhode Island</i>) 1954.	<i>Providence, R. I.</i>
Nalbandian, John, A.B. (<i>Brown Univ.</i>) 1954.	<i>Cranston, R. I.</i>
Oakley, Joseph Carter, A.B. 1954.	<i>Bardstown, Ky.</i>
†Safian, Nathan Abram (<i>Richmond Coll.</i>)	<i>Portsmouth, Va.</i>
Saxe, Stanley Richard, A.B. (<i>Boston Univ.</i>) 1953.	<i>Malden</i>
Schumer, Sheldon, B.A. (<i>Brooklyn Coll.</i>) 1951.	<i>Brooklyn, N. Y.</i>
†Stempien, James Henry, A.B. (<i>Yale Univ.</i>) 1954.	<i>New Britain, Conn.</i>
Tingey, William Horne, Jr., B.S. (<i>Univ. of Utah</i>) 1952.	<i>Salt Lake City, Utah</i>
Trabitz, Barry David, B.S. (<i>Purdue Univ.</i>) 1954.	<i>Brooklyn, N. Y.</i>

Second Class

Ash, Homer Lee, B.S. (<i>Univ. of Illinois</i>) 1951.	<i>Huntington, W. Va.</i>
Bauer, Peter William, B.A. (<i>Yale Univ.</i>) 1955.	<i>New Britain, Conn.</i>
Dewan, Otis Kyron, Jr., A.B. 1955.	<i>Whitesboro, N. Y.</i>
Douglas, Joel Paul, B.S. (<i>Univ. of Massachusetts</i>) 1955.	<i>Haverhill</i>
Farbman, Albert Irving, A.B. 1955.	<i>Revere</i>
Genua, Vincent Loreto, A.B. (<i>Brown Univ.</i>) 1955.	<i>Waterbury, Conn.</i>
Gerber, Edward Michael, A.B. (<i>Boston Univ.</i>) 1954, M.A. (<i>ibid.</i>) 1955.	<i>Boston</i>
Giddon, Donald Bernard, A.B. (<i>Brown Univ.</i>) 1952, M.A. (<i>Boston Univ.</i>) 1953.	<i>Chestnut Hill</i>
Hain, James Neil, A.B. 1955.	<i>Dorchester</i>
†Hoover, Terrence David (<i>Franklin and Marshall Coll.</i>)	<i>York, Pa.</i>
Kaplan, Samuel, B.M.E. (<i>City Coll. of New York</i>) 1950.	<i>Bronx, N. Y.</i>
Maldonado, Alfred Anthony, B.S. (<i>Brooklyn Coll.</i>) 1954.	<i>Brooklyn, N. Y.</i>
Prescott, Marvin Arthur, A.B. 1955.	<i>Newport, R. I.</i>
Seifert, Donald Max, A.B. (<i>Brown Univ.</i>) 1955.	<i>Bethel, Conn.</i>
Stern, Burt Donald, B.A. (<i>New York Univ.</i>) 1955.	<i>Flushing, N. Y.</i>

First Class

Bortnick, Louis Saunder, A.B. (<i>Williams Coll.</i>) 1956.	<i>Jamaica Plain</i>
†Danovitch, Stuart Henry (<i>Harvard Coll.</i>)	<i>Norwood</i>

SCHOOL OF DENTAL MEDICINE

Fasciano, Robert Walter, B.S. (<i>Tufts Univ.</i>) 1956.	Somerville
‡Fischman, Stuart Lee (<i>Cornell Univ.</i>)	Buffalo, N. Y.
Giordano, Russell Anthony, B.A. (<i>Univ. of Connecticut</i>) 1956.	New London, Conn.
Kenler, Kermit Lester, B.A. (<i>Washington and Jefferson Coll.</i>) 1956.	New Bedford
Kimball, Peter Gray, A.B. (<i>Hamilton Coll.</i>) 1956.	Marblehead
‡Morin, Edward Marshall (<i>Clark Univ.</i>)	Worcester
Palmer, David Wayne, A.B. (<i>Hamilton Coll.</i>) 1956.	Batavia, N. Y.
Prifty, Robert James, A.B. (<i>Brown Univ.</i>) 1956.	Waterbury, Conn.
Rosenthal, Edward, A.B. 1956.	Dorchester
Sheffer, Joseph, A.B. (<i>Brown Univ.</i>) 1956.	Chestnut Hill
Shulman, Leonard Burton, A.B. 1955.	Brighton
‡Sudikoff, Norman (<i>Dartmouth Coll.</i>)	Chelsea

SUMMARY 1956-57

Fourth Class	13
Third Class	14
Second Class	15
First Class	14
Total	<hr/> 56

HARVARD UNIVERSITY

COLLEGES REPRESENTED

	DENTAL AND MEDICAL SCHOOLS REPRESENTED
Boston University	3
Breslau, University of (Poland)	1
Brooklyn College	2
Brown University	7
California, University of (at Los Angeles)	3
City College of New York	1
Clark University	1
Columbia University	1
Connecticut, University of	1
Cornell University	1
Dartmouth College	1
Fordham University	1
Franklin and Marshall College	1
Hamilton College	2
Harvard University	9
Illinois, University of	1
Maine, University of	1
Massachusetts, University of	2
Morehouse College	1
New York University	3
Oklahoma, University of	1
Purdue University	1
Rhode Island, University of	1
Richmond College	1
Teachers College of Connecticut	1
Trinity College	1
Tufts University	1
Utah, University of	1
Washington and Jefferson College	1
Wesleyan University	1
Williams College	1
Yale University	3
<hr/>	
Total	57
Counted more than once	<hr/> 1
Total number of students . . .	56

PROFESSORS EMERITI

JOSEPH C. AUB, M.D.	Professor of Research Medicine
JAMES B. AYER, M.D.	James Jackson Putnam Professor of Neurology
J. LEWIS BREMER, M.D.	Hersey Professor of Anatomy
STANLEY COBB, M.D.	Bullard Professor of Neuropath- ology
BRONSON CROTHERS, M.D.	Clinical Professor of Pediatrics
ALEXANDER FORBES, M.D.	Professor of Physiology
JAMES L. GAMBLE, M.D.	Professor of Pediatrics
WORTH HALE, M.D.	Associate Professor of Pharmacol- ogy
PARKER HEATH, M.D.	Clinical Professor of Ophthalmol- ogy
WILLIAM A. HINTON, M.D.	Clinical Professor of Bacteriology and Immunology
GEORGE W. HOLMES, M.D.	Clinical Professor of Roentgenol- ogy
FREDERICK C. IRVING, M.D.	William Lambert Richardson Pro- fessor of Obstetrics
A. LEROY JOHNSON, D.M.D.	Professor of Clinical Dentistry
ELLIOTT P. JOSLIN, M.D.	Clinical Professor of Medicine
VARAZTAD H. KAZANJIAN, D.M.D., M.D.	Professor of Plastic Surgery
WILLIAM E. LADD, M.D.	William E. Ladd Professor of Child Surgery
WILLIAM GORDON LENNOX, M.D.	Associate Professor of Neurology
J. HOWARD MEANS, M.D.	Jackson Professor of Clinical Medi- cine
LEROY M. S. MINER, D.M.D., M.D.	Professor of Clinical Oral Surgery
CHARLES G. MIXTER, M.D.	Clinical Professor of Surgery
FRANK R. OBER, M.D.	John B. and Buckminster Brown Clinical Professor of Ortho- paedic Surgery
ROBERT B. OSGOOD, M.D.*	John B. and Buckminster Brown Professor of Orthopaedic Sur- gery

* Died October 2, 1956.

HARVARD UNIVERSITY

JOHN ROCK, M.D.

FREDERICK F. RUSSELL, M.D.

GEORGE C. SHATTUCK, M.D.

RICHARD M. SMITH, M.D.

HARRY C. SOLOMON, M.D.

MERRILL C. SOSMAN, M.D.

FRITZ B. TALBOT, M.D.

KURT H. THOMA, D.M.D.

ERNEST E. TYZZER, M.D.

FREDERICK H. VERHOEFF, M.D.

D. HAROLD WALKER, M.D.

IRVING J. WALKER, M.D.

CHARLES J. WHITE, M.D.

Clinical Professor of Gynecology
Professor of Preventive Medicine
and Epidemiology

Clinical Professor of Tropical
Medicine

Thomas Morgan Rotch Professor
of Pediatrics

Professor of Psychiatry

Professor of Radiology at the Peter
Bent Brigham Hospital

Clinical Professor of Pediatrics

Professor of Oral Surgery and
Charles A. Brackett Professor of
Oral Pathology

George Fabyan Professor of Com-
parative Pathology and Professor
of Tropical Medicine

Professor of Ophthalmic Research
Walter Augustus Lecompte Pro-
fessor of Otology

Clinical Professor of Surgery

Edward Wigglesworth Professor
of Dermatology

TEACHING STAFF

1956-1957

Members of the Faculty of Medicine are indicated by heavy-face type.

	PAGE		PAGE
Aas, K. A.	99	Asekoff, M.	116
Abbott, J. A.	116	Ashmore, J.	82
Abelmann, W. H.	98	Aström, K-E.	120
Abrahams, D.	121	Atin, H. L.	105
Abrams, A. L.	147	Atkins, L.	90
Abramson, D.	139	Atkinson, M. S.	121
Ackerly, W.	121	Atwell, C. R.	116
Adams, A. K.	151	Atwood, D. A.	205
Adams, E. E.	204	Aufranc, O. E.	157
Adams, J., Jr.	113	*Augustine, D. L.	92
Adams, R. D.	14, 114	Auld, P. A. McP.	135
Adams, R. S.	120	Auskaps, A. M.	210
Adelstein, S. J.	104	Austin, R. C.	148
Adler, M. H.	118	Ayer, J. P.	88
Aisenberg, A. C.	104	Badger, T. L.	97
Albert, H. S.	116	Baggett, B.	82, 109
Albert, M. D.	104	Bagnall, H. J.	150
Albright, F.	96	Bailey, C. C.	98
Albright, J. T.	203	Bailit, I. W.	133
Alexander, B.	14, 96	Bakay, L.	147
Alexander, C. J.	90	Baker, B. W.	93
Algeri, E. J.	95	Baker, M. P.	98
Allen, F. H., Jr.	132	Baker, W. H.	101
Allen, H. F.	127	Balazs, E. A.	127
Allers, O. E.	132	Balboni, V. G.	101
Altman, G. E.	101	Ball, E. G.	13, 81
Altschule, M. D.	97	Ballantine, H. T., Jr.	147
Ames, A., 3d	82	Bally, P. R.	105
Amos, H.	85	Banker, B. Q.	117
Andersen, T. W.	146	Banks, B. M.	98
Anderson, J.	105	Banks, H. H.	158
Andriol, M.	90	Bardawil, W. A.	89
Angelini, H.	160	Barger, A. C.	79
Angevine, J. B., Jr.	77, 123	Barker, R. H.	139
Antoniades, H. N.	155	Barlow, J. S.	120
Antonowicz, I.	132	Barnes, B. A.	147
Arnold, J. H.	134	Barr, J. S.	157
Arnold, M. L. B.	134	Barnett, R. J.	76
Aronow, L.	93	Barry, H., Jr.	117
Aronow, S.	100	Bartlett, M. K.	146

* SPH Faculty.

THE MEDICAL SCHOOL

	PAGE		PAGE
Batchelor, W. H.	101	Blank, I. H.	113
Bates, F. D.	158	Blasi, J. V.	204
Bauer, W.	96	Blennerhassett, G. H.	103
Baxter, D. W.	121	Blitzer, J. R.	118
Bayer, J. T.	93	Blodgett, F. M.	132
Bayles, T. B.	98	Blom, G. E.	117, 137
Beaser, S. B.	98	Bloomfield, R. A.	98
Beath, M. M.	90	Blumgart, H. L.	96
Beecher, H. K.	144	Bock, C. E. B.	133
Beetham, W. P.	127	Bockoven, J. S.	118
Behringer, G. E.	148	Boeder, P.	127
Bell, E. D., Jr.	103	Bogoch, S.	122
Bellin, L. B.	133	Bojar, S.	117
Bellman, S. E. H.	150	Boling, L. A.	118
Benaron, T.	117	Bollinger, D. M.	118
Bencze, W. L.	105	Bonner, F. J.	118
Benda, C. E.	117	Boshell, B. R.	105
Benedict, E. B.	145	Botsford, T. W.	146
Benedict, P. H.	101	Boucot, N. G.	105
Bendixen, H. H.	147	Bower, W. H.	117
Benforado, J. M.	93	Boyd, R. W.	120
Bengloff, H.	147	Boyers, C. L., Jr.	204, 207
Benirschke, K.	89	Bozer, J. M.	105
Benson, J. A., Jr.	101	Brachfeld, N.	77
Bent, D. F.	86	Braconier, H. E.	127
Berenberg, A. L.	130	Brazelton, T. B.	132
Berenberg, W.	132	Brazier, M. A. B.	116
Berezin, M. A.	117	Breer, R. D.	135
Berg, R. B.	135	Brennan, E. N.	122
Berg, R. L.	98	Brewer, E. J., Jr.	136
Bering, E. A., Jr.	146	Brewster, A. H.	157
Berlin, R. D.	80	Brewster, W. R., Jr.	146
Berman, H.	205	Briggs, F. N.	93
Berman, L.	117	Brines, J. K.	132
Bernstein, N. R.	120	Brockhurst, R. J.	128
Berry, G. P.	13, 14, 70, 84	Broderick, T. F., Jr.	158
Bertles, J. F.	105	Brodie, A. F.	85
Bethune, J. E.	105	Brooke, M. S.	85
Bibring, G. L.	115	Brooks, H. E., Jr.	139
Bigelow, B.	89	Brooks, J. R.	146
Bigelow, F. S.	98	Brown, C. C., Jr.	105
Binette, P. G.	103	Brown, H. P.	147
Birchard, W. H.	103	Brown, J. F.	148
Bird, K. T.	101	Brown, M. G.	101
Black, H.	147	Brown, M. R.	117
Blake, J. R., Jr.	105	Brown, R. W.	155
Bland, E. F.	96	Brown, T.	158

TEACHING STAFF

	PAGE		PAGE
Brown, W. J., Jr.	130	Cavanaugh, T. J.	127
Brownell, G. L.	100	Cave, E. F.	157
Browning, J. R.	103	Cayler, G. G.	134
Brownlee, R. E.	101	Chafetz, M. E.	119
Brussel, B. B.	118	Chalmers, T. C.	98
Buchanan, W. R., Jr.	136	Chamberlain, J. W.	149
Bucher, N. L. R.	98	Chandler, P. A.	127
Buka, R., Jr.	101	Chapman, E. M.	97
Bullard, D. M., Jr.	120	Chapman, W. P.	100
Bunker, J. P.	145	Chase, L. S.	117
Burbank, C. B.	149	Chase, V. D.	89
Burdette, H.	205	*Chernin, E.	92
Burdon, A. P.	119	Cherrick, G. R.	103
Burgin, L. B.	132	Chisholm, J. F., Jr.	127
Burke, J. F.	151	Christ, J.	119
Burnap, T. K.	147	Christensen, R. M.	150
Burrage, W. S.	99	Christie, R. G.	121
Burwell, C. S.	29, 96	Christman, G.	206
Bushueff, B. P.	130	Churchill, E. D.	144
Bustos, J.	105	Claff, C. L.	147
Butler, A. M.	131	Clancy, R. E.	103
Buxton, B. H., Jr.	139	Clark, D. A.	140
Byers, R. K.	123, 131	Clark, J. G., Jr.	122
Cadigan, J. B., Jr.	105	Clark, T. R.	119
Cahill, G. F., Jr.	83	Clatanoff, D. V.	105
Cain, A. J.	119	Clifford, M. H.	101
Calkins, E.	98, 136	Clifford, S. H.	131, 140
Callahan, E. J., 3d	103	Clough, J. M.	127
Cameron, H. S.	158	Cobbs, B. W., Jr.	108
Campagna-Pinto, D. F.	88	Coe, R. C.	147
Cankardas, A.	121	Cogan, D. G.	127, 128
Cannon, B.	146	Cogan, E.	116
Cardoso, A. M. de C.	89	Cohen, A.	133
Carmichael, M. W.	122	Cohen, A. S.	105
Carpenter, R. L.	127	Cohen, J.	158
Carrington, K. W.	150	Cohen, M. E.	117
Carroll, W. J. E.	160	Cohen, M. I.	208
Carter, F.	119	Cohen, P.	105
Casas (Morales), R.	150	Cohen, S. I.	147
Caskey, W. H.	103	Cohen, R. B.	89
Castellanos, H. A. G.	150	Cohen, S.	98
Casten, V. G.	107	Cole, E. M.	115
Castillo, F. G.	122	Coles, M. R.	122
Castle, W. B.	96	Contratto, A. W.	101
Castleman, B.	88	Cook, C. D.	132
Caudill, W. A.	116	Coolidge, J. C.	119

* SPH Faculty.

THE MEDICAL SCHOOL

	PAGE		PAGE
Coon, G. P.	115	Dawber, T. R.	103
Coons, A. H.	84	Dawes, D. C.	117
Cooper, B. A.	105	Dawes, L. G.	117
Cope, O.	145	Dawson, F. P.	103
Copeland, B. E.	89	Dealy, J. B., Jr.	129
Cornett, R. W.	105	Decker, B. L.	101
Cornwell, D. G.	83	Decker, J. L.	105
Correia-Branco, M. J.	150	DeFriez, A. I. C.	101
Corson, J. M.	90	DeGiacomo, F. L.	130
Corvese, W. P.	150	DeLorme, T. L.	158
Costa, P. J.	209	d'Elseaux, F. C.	115
Cotter, W. C.	151	deMagalhaes, M. N.	105
Crabbe, J.	105	deMarneffe, F. L. A.	119
Craig, J. M.	88	Denny-Brown, D. E.	114
Craig, L. C.	105	Derick, C. L.	98
Crane, C.	146	Derow, H. A.	97
Crawford, J. D.	131	Desautels, R. E.	149
Crigler, J. F., Jr.	132	Despointes, R. H.	105
Critz, G. T.	134	DeWan, C. J.	89
Crocker, A. C.	89	DeWilde, H.	203, 206
Crocker, A. T.	101	Dews, P. B.	93
Crocker, S. C.	101	Dexter, C. J.	149
Crone, N. L.	108	Dexter, L.	97
Cronkhite, L. W., Jr.	101	Diamond, L. K.	14, 131
Crump, C. H.	105	Dickson, W. A.	132
Culver, P. J.	98	Dodge, P. R.	117, 137
Cummer, F. H.	119	Don, C. J.	130
Cummins, J. F.	103	Donald, H. B.	86
Curran, W. J.	95	Donaldson, D. D.	128
Curtis, G. W.	88	Donaldson, G. A.	147
Daffinee, R. W.	132	Donner, R.	90
Dalrymple, W.	101	Dooley, R. R.	134
Dammin, G. J.	88	Dorsey, W. R.	134
D'Angio, G. L.	130	Dowling, J. T.	103
Danials, E. M.	117	Drescher, A. N.	135
d'Autremont, C. C.	119	Dresner, E.	101
Davidoff, D. E.	151	Dreyfus, P. M.	121
Davidson, C. S.	96	Dreyfuss, J. R.	130
Davidson, D. T., Jr.	132	Drooker, J. C.	160
Davidson, E. A.	121	Drorbaugh, J. E.	132
Davidson, G. E.	121	Dudley, H. R., Jr.	90
Davies, A. M.	142	Duncan, C. J.	155
Davies, J.	76	Duncan, C. R.	105
Davies, J. A. V.	131	Duncan, R. H.	122
Davies, S. A.	136	Dunning, J. M.	210, 211
Davis, K. K.	134	Dunphy, E. B.	14, 127
Davis, R. P.	103	Dunphy, J. E.	14, 144

TEACHING STAFF

	PAGE		PAGE
Durbin, R. P.	80	Felber, J.-P.	105
DuToit, C. H.	98	Feldman, A. S.	160
Dwyer, J. H.	122	Fellers, F. X.	135
Dwyer, T. F.	117	Felsingier, J. M.V.	116
Dyer, E. C.	132	Ferguson, C. F.	160
Eades, M. F.	139	Ferguson, W. F.	140
L Easterday, C. L.	139, 155	Fernbach, D. J.	134
Easton, M. T.	127	Fessler, J. H.	105
Eaton, M. D.	14, 85	Field, R. A.	101
Edwards, E. A.	76	Fienberg, R.	89
Ehrlich, H. L.	205	Finck, A. J.	147
Ejarque (Miguel), P.	150	Fine, J.	144
Ekren, H.	105	Fineman, A.	119
Eldredge, L. L., Jr.	134	Finkbiner, R. B.	105
Elek, S. D.	85	Finland, M.	97
Eley, R. C.	131	Finley, A. H.	136
Ellicott, M. F.	103	Fisher, C. M.	115
Ellis, D. S.	101	Fiske, C. H.	81
Ellis, L. B.	97	Fiske, V. M.	209
Elliston, W. A.	158	FitzHugh, G. S.	98
Elwyn, D. H.	82	Flacke, W.	93
Emerson, K., Jr.	13, 14, 97	Flake, C. G.	160
Enders, J. F.	85	Fleischner, F. G.	129
Engel, L. L.	81, 108	Flynn, J. M.	101
Engfeldt, B. O.	203	Flynn, W. F.	149
England, A. C., Jr.	119	Fogg, L. C.	89
Eppinger, E. C.	13, 14, 71, 97	Foisie, P. S.	149
Epstein, H. D.	205	Folch-Pi, J.	81
Epstein, S. H.	117	Foley, G. E.	89
Erikson, G. E.	76	Foley, J. M.	115
Erslev, A. J.	98	Forbes, A. P.	101
Essember, L. J.	134	Ford, R.	95, 211
Etherington, J. W.	204	Foster, G. S.	103
Evans, M. G.	160	Fowler, F. D.	150
Evarts, H. W.	103	Fox, H. M.	115
Ewalt, J. R.	95, 115	Frank, A. A.	132
Eyquem, A.	100	Frank, E. D.	146
Fairman, M.	86	Frank, H. A.	145
Farber, S.	88, 207	Frawley, S. M.	134
†Farnsworth, D. L.	108	Frazier, C. N.	113
Farrell, D. J.	205	Frazier, H. S.	80
Fast, B.	105	Freedberg, A. S.	97
Faxon, H. H.	147	Fregly, M. J.	80
Feeney, J. J.	103	Freiman, D. G.	88
Feinberg, I.	122	Freinkel, N.	101
Feingold, A. H.	122	Fremont-Smith, P.	98

† A & S Faculty.

THE MEDICAL SCHOOL

PAGE	PAGE		
French, E. G.	132	Gitlin, D.	132
Freymann, J. G.	101	Glicklich, E. A.	113
Friedlander, L.	134	Glud, E.	117
Friedlich, A. L., Jr.	101, 131	Goethals, T. R.	138
Friedman, E. W.	147	Gohd, R. S.	86, 160
Friedman, L. J.	122	Gold, N. I.	147
Friedman, S.	209	Goldberg, J. A.	147
Friend, D. G.	99	Goldberg, B. D.	90
Froesch, E. R.	105	Goldfien, A.	106
Frommhold, W.	130	Goldhaber, P.	203
Frothingham, T. E.	136	Golding, C. R.	122
Funkenstein, D. H.	115	Golding, H. J.	122
Furth, J.	88	Goldman, C. R.	121
Fuwa, K.	105	Goldman, M.	119
Fyler, D. C.	134	*Goldmann, F.	210
Gaensler, E. A.	108, 146	Goldsmith, J. R.	109, 142
Gair, D. S.	119	Goldstein, R.	99
Galdston, R.	122	Goldthwaite, J. C.	103
Gallagher, J. R.	132	Gonzales, L. E.	95
Gallup, H. E.	132	Goodale, R. L.	160
Gamble, C. J.	76	Goodale, W. T.	99
Ganz, R. N.	133	Gorbach, A. C., Jr.	139
Garcia, C. R.	156	Gordon, E. E.	104
Gardella, J. W.	13, 14, 100	Gordon, E. T.	149
Gardner, F. H.	97	*Gordon, J. E.	210
Gardner, G. E.	115	Gorlin, R.	101
Gardner, M. R.	119	Graham, J.	121
Gargill, S. L.	97	Graham, J. B.	155
Garrett, J. V.	90	Graham, J. R.	102
Gary, J. E.	130	Graham, K. M.	104
Gasteiger, E. L., Jr.	79	Graham, R. M.	155
Gates, O.	89	Grant, W. M.	128
Gauld, A. G.	139, 155	Gravenstein, J. S.	146
Gauthier, J.	122	Gray, C. T.	85
Gautier, M.	142	Gray, E. B., Jr.	151
Gellis, S. S.	132	Gray, S. J.	97
Gephart, F. T.	147	Green, J.	119
Gerald, P. S.	134	Green, M. N.	89
Gergely, J.	100	Green, S.	134
Geronomus, L. H.	100	Green, T. H., Jr.	155
Gibson, J. G., 2d	100	Green, W. T.	157
Gifford, S. R., Jr.	116	Greenberg, M. S.	102
Gill, B. F.	119	Greenblatt, G. R.	117
Gillespie, L.	139, 155	Greenblatt, M.	115
Gilman, S.	146	Greenough, C. W.	13
Ginandes, S. C.	122		

* SPH Faculty.

TEACHING STAFF

	PAGE		PAGE
Greep, R. O.	13, 14, 70, 76, 209	Harwood, R.	102
Gregg, W. I.	155	Hasenbush, L. L.	116
Gregory, E. A.	134	Hastings, A. B.	81
Grenier, B.	135	Hatch, C. E.	207
Grice, D. S.	157	Hauck, A.	135
Griesemer, R. D.	113	Hauser, G.	82
Grillo, H. C.	147	Havens, L. L.	122
Grogan, R. H.	139, 155	Haycox, J. A.	119
Gross, J.	99	Hayden, J. W.	158
Gross, P. A. M.	135	Haynes, F. W.	100
Gross, R. E.	144, 207	Hazard, S. W.	134
Grunebaum, H.	122	Heald, F. P., Jr.	133
Gryboski, J. S.	104	Healey, E. J.	130
Grynska, P. F.	149	Heath, C. W.	99
Guild, W. R.	102	Hebertson, W.	122
Gundersen, A. E.	77	*Hegsted, D. M.	83
Gundersen, T.	127	Heidensleben, E. H. C.	150
Guntheroth, W. G.	136	Hellerstein, E. E.	89
Guralnick, E.	149	Helliesen, P. J.	135
Guralnick, W. C.	206	Hellman, M. E.	113
Hackett, T. P.	121	Hendrick, I.	115
Hagen, P. B.	93	Henken, E. M.	130
Hagerman, D. D.	82	Henneman, D. H.	147
Haggerty, R. J.	133	Henneman, E.	80
Hakim, S.	119	Henneman, P. H.	102
Hakomori, S-i.	106	Henson, G. F. T. W.	150
Haley, W. F., Jr.	119	Heringer, R.	151
Hall, T. C.	104	Herman, H.	117
Hall, V. R.	119	Hermanson, L.	146
Hallowell, P.	147	Herrmann, R. I.	122
Hamlin, E., Jr.	145	Hersey, F. C.	119
Hamlin, J. T., 3d	106	Hershenson, B. B.	146
Hamolsky, M. W.	99	Hershman, H. A.	149
Hammond, W. G.	150	Hertig, A. T.	71, 88, 140
Hancock, E. W.	104	Hess, H. H.	117
Handler, A. H.	89	Hiatt, H. H.	102
Hanelin, J.	130	Hickler, R. B.	104
Hanks, J. H.	85	Hicks, S. P.	88
Hardy, H. L.	108,	Hill, A. M.	133
Hardy, I. B., Jr.	149	Hill, J. M.	128
Harken, D. E.	145	Hill, W. R.	113
Harris, C. A.	90	Hillman, D. A.	135
Harris, G. B. C.	130	Hillman, E. S.	136
Harris, H. I.	119	Hindman, D. H.	139
Harrison, J. H.	144	Hinman, C. H.	139
Harrison, T. S.	150	Hirsch, E. O.	104

* SPH Faculty.

THE MEDICAL SCHOOL

	PAGE		PAGE
Hirsch, P. F.	209	Jeanloz, R. W.	82, 109
Hitzig, W. H.	155	Jessiman, A. G.	148
Ho, M.	106	Jewett, J. F.	139
Hoagland, M. B.	100	Johnson, C. C.	127
Hoar, C. S., Jr.	147	Johnson, L. D.	90
Hoch, F. L.	100	Johnson, W. E.	158
Hoet, J. J.	106	Jolly, D. H.	133
Hofheinz, B.	93	Jones, A. R.	132
Hogan, J. T.	156	Jones, C. M.	96
Holden, R. B.	102	Jones, H. W., Jr.	104
Holder, R.	119	Jones, R. H.	106
Holmes, E. M.	160	Jones, W. F., Jr.	109
Horenstein, S.	117	Jones, W. N.	158
Horne, H. W., Jr.	155	Jones, W. S.	139
Houghton, J. D.	89	Joplin, R. J.	158
Houston, C. S.	139	Jørgensen, S.	147
Howard, P. M.	117	Joske, R. H.	106
Hubbell, J. P., Jr.	133	Justi, R. A.	89
Hugenberger, P. W.	158	Kaegi, J. H. R.	106
Hume, D. M.	145	Kahana, E. M.	122
Hunter, J. M.	146	Kahana, R. J.	117
Hunter, M. J.	82	Kahne, M. J.	117
Huntington, D. S.	117	Kaitz, A. L.	135
Hurwitz, D.	97	Kane, C. A.	117
Hyde, R. W.	116	Kang, S. H.	99
Ikui, H.	127	Kannel, W. B.	143
Imerslund, O.	132	Kanter, S. S.	119
Ingbar, S. H.	99	Kaplan, E.	149
Ingenito, E. F.	142	Kaplan, M. H.	85
Ingersoll, F. M.	155	Kaplan, S.	119
Ingraham, F. D.	145	Karnes, W. E.	122
Ingram, T. T. S.	136	Karnovsky, M. J.	89
Irwin, J. S.	161	Karnovsky, M. L.	81
*Ipsen, J.	143	Karp, H. R.	121
Isaac, G.	106	Karp, M.	158
Isselbacher, K. J.	102	Kass, E. H.	97
Jachimczyk, J. A.	95	Katsas, G. G.	95
Jackson, J. H.	102	Katz, J. H.	106
Jackson, L.	121	Katz, S. L.	135
Jackson, R. G.	139	Kaufman, I.	117
Jacobson, B. M.	102	Kay, M. N.	134
Jacobson, H. N.	140	Kaye, A.	119
Jakus, M. A.	127	Kearsley, R. B.	134
Jandl, J. H.	102	Keller, E. B.	100
Janeway, C. A.	131, 207	Keller, J. W.	104
Jazowski, J. P.	204	Kellett, M. A.	130

* SPH Faculty.

TEACHING STAFF

	PAGE		PAGE
Kelley, R. M.	102	LaCroix, G. E.	139
Kelley, S. B.	146	Ladman, A. J.	76
Kelley, V. J.	160	Laforet, M. T.	100
Kendall, L. G.	148	Lamb, C. A.	149
Kenny, A. D.	93	Lamberg, B-A.	106
Kensler, C. J.	93	Lamont, J. H.	117, 137
Kent, C.	160	Landis, E. M.	14, 79
Kern, H. L.	128	Landsman, E.	119
Kerr, W. S., Jr.	148	Lane, F. R.	139
Ketchel, M. M.	147	Langham, M. E.	129
Ketchum, W. F.	133	Lanman, T. H.	13, 144
Keuper, C. S.	113	Lanthier, A.	106
Kevorkian, A. Y.	155	Laron, Z.	135
Kibrick, S.	132	Lasher, C. K.	204
Kimball, S.	122	Leadbetter, W. F.	145
King, W. B., Jr.	90	Leaf, A.	97
Kinney, J. M.	151	Leahey, B. D.	128
Kinoshita, J. H.	83, 128	Lebaron, F. N.	82
Kinter, W. B.	80	LeCompte, P. M.	88
*Kirkwood, S. B.	140, 156	Lee, F. B.	149
Kistner, R. W.	155	Lees, M. P.	117
Kite, O. W.	205	Legg, M. A.	89
Klaus, H.	150	Leiderman, P. H.	121
Klerman, G. L.	122	Leidholt, J. D.	158
Klotz, R. E.	160	Leighton, H. T.	139
Knapp, J. A.	136	Leinbach, L. B.	130
Knobil, E.	80	Leonsins, A. J.	150
Knox, W. E.	81	Lentine, J.	160
Kontoff, H. A.	148	Lerman, J.	99
Kozol, H. L.	116	Leskowitz, S.	85, 100
Krag, J. A.	121	Lesses, M. F.	102
Krane, S. M.	104	Levene, C. I.	106
Kranes, A.	99	Lever, W. F.	113
Krayer, O.	14, 92	Levin, S.	117
Kubik, C. S.	116	Levine, A. S.	86, 96
Kudarauskas, E. N.	117	Levine, H. D.	99
Kuhns, J. G.	158	Levine, J.	119
Kulezycki, L. L.	134	Levine, S. A.	68
Kulka, J. P.	88	Levingston, A.	119
Kumagai, L. F.	106	Levinson, D. J.	116
Kunz, L. J. J.	85	Levison, S.	117
Kurland, G. S.	99	Levitin, H.	106
Kurzmann, R.	102	Lewin, E.	122
Kuwabara, T.	128	Lewis, D. K.	160
Kwaan, H. M.	130	Liebman, S. D.	128
Kyriazidou, M. P.	122	Lifton, R. J.	116

* SPH Faculty.

THE MEDICAL SCHOOL

	PAGE		PAGE
Lile, G.	122	Mack, J. E.	122
Lin, E. C. C.	82	Mackie, J. E.	106
Lincoln, R. C.	206	MacLaren, J. A.	139
Lindemann, E.	14, 136	Macmillan, A. S.	129, 161
Lindgren, I. E.	102	Macmillan, A. S., Jr.	130
Lindsley, O. R.	116	Macris, S. G.	151
Linenthal, A. J.	99, 136	Maddock, C. L.	89
Linton, R. R.	145	Madison, W. McK., Jr.	106
Lipmann, F. A.	81	Magasanik, A. K.	89
Lipschitz, E.	149	Magasanik, B.	85
Litt, M.	86	Magill, F. B.	135
Little, A. B.	139	Magraw, C. E.	119
Littlefield, J. W.	100	Mahoney, E. A., Jr.	151
Littman, D.	99	Majno, G.	88
Litwin, M. S.	150	Malkiel, S.	100
Liu, C.	85	Mallory, G. K.	88
Liu, W.	156	Maloney, A. M.	204
Lloyd, J. B.	149	Maloof, F.	104
Locke, S.	121	Mancall, E. L.	122
Lockhart, A. J.	102	Manique, J.	106
Loftfield, R. B.	100	Mann, J.	118
Lombroso, C. T.	133	Mann, L. T., Jr.	90
Long, R. T.	116, 137	Mann, W.	118
Longino, L. A.	146	Mansell, H.	89
Lorenz, M. P.	117	Mansfield, J. S.	102
Losch, P. K.	207	Marble, A.	97
Loud, A. V.	100	Marchi, P. I.	106
Lovesey, B. E.	160	Marcus, S. M.	148
Lowell, J. D.	158	Margoshes, M.	100
Low, B. W.	81	Marks, J. H.	129
Lewis, S.	148	Marlow, F. W., Jr.	99
Lown, B.	104	Martin, D. B.	106
Lu, W. C.	90	Martin, E. A.	122
Lubin, M.	93	Martin, L. W.	151
Ludwig, A. O.	118	Martinelli, M.	143
Ludwig, M. L.	83	Martner, G.	135
Lund, C. C.	144	Martz, G.	106
Luongo, M. A.	95	Masland, R. P., Jr.	133
Lurie, M. H.	160	Massell, B. F.	108, 131
Lyman, C. P.	76	Matarazzo, J. D.	116
Lynch, G. W.	102	Matarazzo, R. G.	121
MacAusland, W. R., Jr.	158	Matoltsy, A. G.	113
MacCollum, D. W.	145	Matovinovic, J.	100
MacCready, R. A.	85	Matson, D. D.	145
MacDonald, A. S., Jr.	134	Matusow, R. J.	204, 208
Macdonald, J. B.	209	Mayer, F. E.	135
MacDonald, W. J.	139	*Mayer, J.	80

* SPH Faculty.

TEACHING STAFF

	PAGE		PAGE
Mayer, R. F.	122	Michelsen, J. J.	118
*Mayes, W. F.	211	Miller, C. C.	149
Mayo, R.	159	Miller, J. M.	102
Maynard, E. P., 3d	106	Miller, L. C.	116
McArthur, J. W.	102, 137	Miller, R. J.	150
McBay, A. J.	95	Miner, R. L.	206
McCarter, R. H.	118	Ming, S-C.	89
McCarthy, J. F.	121	Mitchell, A. M.	104
McCarthy, P. L.	113	Mixer, C. G., Jr.	149
McConnell, F.	130	Modell, A.	119
McDaniel, L. T.	102	Modest, E. J.	89
McDermott, W. V., Jr.	146	Moghul, T. H.	150
McDonald, F. C.	133	Mogul, K. M.	122
McEwen, C. M., Jr.	93	Mogul, S. L.	121
McGovern, J. J.	134	Moldawer, M. P.	106
McIntosh, R. L.	205	Monis, B.	90
McIntyre, J. D.	140, 156	Monroe, R. T.	99
McKay, D. G.	88, 140	Montgomery, W. W.	160
McKee, M. C.	136	Moore, D. M.	133
McKittrick, J. B.	148	Moore, F. D.	144
McKittrick, L. S.	144	Moore, R. F.	123
McLaughlin, W. F.	118	Mora, F.	151
McLean, D. E.	134	Morris, C. E.	123
McLean, W. T., Jr.	136	Morris, R. H.	158
McManus, T. J.	106	Morris, T. A., Jr.	119
McMurrey, J. D.	151	Morrison, R. S.	104
McQueen, J. D.	150	Moser, H. W.	82
Meade, R. H., 3d	136	Mosher, H. A.	128
Meadow, H. C.	13, 14, 70	Moulton, R. T.	133
Medearis, D. N., Jr.	135	Moyed, H. S.	86
Mehlman, R. D.	122	Mueller, H. L.	133
Meigs, J. V.	155	Mueller, W.	160
Meissner, W. A.	88	Muellner, S. R.	148
Melick, R. A.	106	Muhlethanler, J-P.	90
Meltzer, P. E.	160	Mulligan, W. J.	140, 155
Mendelson, J. H.	122	Munck, A. U.	106
Menninger, R. W.	122	Munson, P. L.	93, 209
Menzer-Benaron, D.	116	Murawski, B. J.	100, 109
Merlis, J. K.	118	Murphy, R. M.	123
Merrill, D.	99	Murphy, W. F.	116
Merrill, J. P.	97	Murphy, W. P.	98
Metcalf, J.	99, 140	Murray, D. B.	106
Metcoff, J.	131	Murray, J. E.	146
Meyer, E.	132	Mushatt, C.	118
Meyer, J. S.	118	Myers, G. S.	99
Mezer, R. R.	119	Nadas, A. S.	132
Michaels, J. J.	118	Nardi, G. L.	146

* SPH Faculty.

THE MEDICAL SCHOOL

	PAGE		PAGE
Nason, L. H.	148	Pappenheimer, J. R.	79
Naterman, H. L.	102	Papper, S.	102
Naves, R. G.	106	Parker, H. V.	150
Neely, P. J.	123	Parks, J. H.	123
Neidhardt, F. C.	86	Parsons, A.	121
Nemer, M. J.	82	Patterson, W. B.	149
Nemiah, J. C.	118	Paul, M. H.	135
Neuhauser, E. B. D.	129, 207	Paul, N. L.	119
*Neva, F. A.	92	Paul, T. W.	121
Newell, J. L.	139	Payne, E. C., Jr.	120
Newton, F. C.	144	Pearlman, J. LeR.	134
Newton, H. F.	146	Pechet, M. M.	100
Neyzi, O.	135	Peebles, T. C.	134
Nichols, G., Jr.	83, 99	Pendleton, M. E.	132
Nichols, R. L.	107	Perlo, V. P.	118
Nielsen, R. L.	107	Pernokas, L. N.	150
Nieweg, H. O.	107	Perrin, E. V.	90
Norman, L. R.	100	Peters, C. M.	102
Norton, P. L.	158	Peterson, J. A.	130
Novack, P.	107	Pfeffer, W., Jr.	133
Oaks, J. H.	204	Pham, H-T.	143
O'Brien, R. G.	130	Phillips, A. W.	149
O'Dea, A. E.	95	Phillips, J. H.	155
Ogden, A. E.	149	Phinney, A. O., Jr.	107
Ohmart, L. M.	205	Picard, E. H.	123
Olesen, K. H.	150	Pichette, L. P.	107
Olson, T. E.	107	Pier, A. S., Jr.	102
Oncley, J. L.	81	Pierce, I. R.	116
Ongley, P. A.	133	Pike, G. M.	102
O'Neill, G. L.	204, 208	Pikula, J. V.	151
Opsahl, J. C.	100	Pinnock, P. R.	83
Orme, R. J.	134	Pippert, R. B.	128
Osborne, J.	134	Pittman, H. S.	99
Osborne, M. P.	146	Point, W. W., 3d	107, 137
Osterberg, D. H.	123	Poirier, F.	121
Otto, J. F., Jr.	104	Politano, V. A.	148
Paasonen, M. K.	93	Pollen, A.	128
Padykula, H. A.	76	Pond, J. C.	100
Page, E.	107	Pontius, R. G.	150
Page, L. B.	107	Pope, A.	77, 115
Paine, D.	104	Porritt, Sir Arthur	147
Paine, R. S.	104, 133	Porter, F. S., Jr.	135
Palmer, R. S.	97	Porter, H.	118
Palubinskas, A. J. B.	130	Porter, K. A.	150
Pan, C. T.	92	Posin, H. I.	120
Panico, F. G.	150	Postel, S.	107
Paparo, G. P.	90	Potter, C.	140

* SPH Faculty.

TEACHING STAFF

	PAGE		PAGE
Potter, H. J.	134	Riss, E.	107
Potter, M. G.	121	Ritvo, E. R.	123
Prather, G. C.	141	Ritvo, M.	129
Preuss, H. G.	123	Rivera, A. V.	107
Price, C. A.	100	Rizzo, N. D.	118
Probst, J. H.	136	Robbins, L. L.	129
Proctor, M. H.	107	Robbins, S. L.	89
Prout, C.	102	Robert, F. J.	121
Provost, M. L.	156	Robey, J. S.	134
Pusey, N. M.	9, 13, 14, 70	Robillard, R. L.	123
Pyle, H. M.	107	Robin, E. D.	102
Quadfasel, F. A.	118	Robinson, C. V.	82
Quarton, G. C.	118	Robinson, L. J.	120
Quigley, T. B.	145	Roby, C. C.	139
Quinby, W. C., Jr.	148	Rocco, A. G.	149
Ramirez, (de Arellano), A. A.	108	Rochlin, G.	115
Ramsey, C. G.	107	Rodkey, F. L.	81
Ravin, H. A.	121	Rodkey, G. V.	149
Record, E. E.	158	Rodriguez, F.	89
Reed, G. F.	160	Rogers, H.	148
Rees, S. B.	107	Rogers, W. P., Jr.	149
Reeves, J.	130	Rolland, R. S.	123
Regan, C. D. J.	128	Rollins, N.	120
Reid, D. E.	15, 138	Romney, S. L.	139
Reid, R. C.	120	Roopenian, A.	160
Reid, W. A.	140	Root, H. F.	98
Reidy, J. A.	158	Ropes, M. W.	98
Reinmuth, O. McN.	123	Rosas-Pena, F.	121
Reiser, D. E.	120	Rose, K. E.	120
Rendall, E. S.	104	Rosenfeld, L.	149
Rennie, D. W.	80	Rosenfield, H. H.	139
Renold, A. E.	99	Rosoff, C. B.	148
Renwick, A. G. C.	135	Ross, E. J.	101
Reutter, F. W.	107	Ross, H. M.	130
Rexford, E. N.	118	Ross, R. A.	132
Reyersbach, G. C.	133	Roth, W. D.	77
Reynolds, E. S., Jr.	90	Rothblatt, J. M.	208
Richards, L. G.	160	Rouillard, F.	139
Richards, W. A.	104	Rourke, G. M.	101
Richardson, E. P., Jr.	118	Rowbotham, J. L.	148
Richardson, G. S.	148	Rowe, C. R.	158
Richardson, J. R.	160	Roy, S. B.	134
Richie, R. H., Jr.	136	Rubini, C.	150
Riemer, K.	128	Rudolph, A. J.	136
Rigg, C. A.	136	Rudolph, A. M.	133
Riggs, B. C.	118	Russell, P. S., Jr.	148
Ripley, F. W., Jr.	140	Russfield, A. B.	89
Riseman, J. E. F.	97	Rutenburg, A. M.	146

THE MEDICAL SCHOOL

	PAGE		PAGE
Rutenburg, S. H.	147	Sears, E. M.	133
Rutledge, R. H.	151	Seeler, A. O.	99
Rutstein, D. D.	142, 210	Segel, A. L.	148
Ryan, K. J.	107	Selenkow, H. A.	102
Sabbath, J. C.	120	Silverstone, B.	118
Sacks, S.	140	Silverstone, N. J.	102
Sade, E. R.	150	Semrad, E. V.	115
Sagall, E. L.	102	Sewall, W. F.	140
St. Aubin, P. M. G.	130	Sexton, L. I.	140
St. Goar, W. T.	104	Shambaugh, B.	123
Salibi, B. S.	150	Shamma'a, M. H.	107
Salisbury, A. J.	134	Shanberge, J. N.	89
Sallmann, F.	93	Shapiro, A. K.	123
Samaha, E. C. A.	205	Shapiro, D.	116
Sands, K. F.	133	Sharp, J. T.	86, 101
Sarris, S. P.	149	Sharpe, J. D.	120
Saslow, G.	115	Shattuck, G. B.	134
Saunders, G. A.	102	Shauffer, I. A.	130
Sauvage, L. R.	150	Shaw, J. H.	15, 83, 209, 210
Sbarra, A. J.	86	Shaw, R. S.	148
Scannell, J. G.	146	Sheddan, F. G., Jr.	148
Sceery, R. T.	133	Sheldon, C. P.	139
Schall, L. A.	160	Sheps, C. G.	142
Scharl, A. E.	120	*Sheps, M. C.	143
Schatzki, R.	129	Sheps, S. G.	104
Schatzmann, H. J.	80	Sherry, S. N.	120
Schepens, C. L.	127	Shillito, J., Jr.	151
Scherman, R. P.	104	Shipp, J. C.	108
Scheuhing, I.	93	Shoemaker, C. B.	82
Schlant, R. C.	107	Shoemaker, W. C.	151
Schmedtje, J. F.	76	Short, C. L.	102
Schmid, K.	101	Shriber, W. J.	102
Schmitt, A.	156	Shurtleff, D. B.	136
Scholl, J. A.	151	Shwachman, H.	132
Scholl, M. L. L.	121, 137	Sifneos, P. E.	118
Schramm, A. J.	140	Silver, E. I.	208
Schulman, J., Jr.	104	Simmons, F. A.	155
Schulz, M. D.	129	Sinesi, S. J.	113
Schulz, R. Z.	89	Sires, W. O.	120
Schuster, S. R.	148	Sloane, A. E.	127
Schwab, R. S.	115	Small, A. S.	133
Schwartz, A.	204	Smiddy, F. G.	151
Schwartz L. A.	120	Smith, C. A.	131, 140
Schwartz, R.	132	Smith, G. M.	147
Scott, J. F.	76	Smith, G. V.	155
Scully, R. E.	88	Smith, J. A.	139
Seale, E. S.	128	Smith, J. C., 2d	90
Sears, B. R.	149	Smith, L. H.	104

* SPH Faculty.

TEACHING STAFF

	<small>PAGE</small>		<small>PAGE</small>
Smith, O. W.	155	Steinberg, N.	148
Smith, P. M.	136	Stephenson, M. L.	107
Smith, R. I.	149	Sternstein, H. J.	160
Smith, R. M.	145	Stetson, R. P.	98
Smith, T. R.	128	Stillman, J. S., Jr.	103
Smith-Petersen, M.	158	Stimson, W. H.	104
Snedeker, L.	133	Stock, M.	118
Snell, F. M.	82	Stoeckle, J. D.	103
Sniffen, R. C.	89	Stoffyn, P. J.	101
Snyder, B. R.	120	Stokes, J., 3d	108, 142
Snyder, F. F.	76, 138	Stone, A. A.	123
*Snyder, J. C.	70, 86	Stone, B. H.	140, 156
Sognnaes, R. F.	13, 14, 203, 209	Stormont, J. MacD.	107
Sohier, W. D., Jr.	102	Stratton, F. C.	95
Solomon, A. K.	80, 82	Strauss, M. B.	100
Solomon, P.	108, 115	Strittmatter, C. F., IV	82
Soloway, A. H.	147	*Stuart, H. C.	98, 155
Sommers, S. C.	89	Sturgis, G. P.	103
Sondergaard, I.	121	Sturgis, S. H.	155
Soodak, M.	101	Sturnick, M. I.	103
Sosman, J. L.	130	Suby, H. I.	148
Spargo, J. A.	134	Sullivan, G. L., Jr.	128
Spater, H. W.	135	Sullivan, J. F.	118
Spector, L. B.	101	Summerskill, W. H. J.	107
Spiro, D.	89	Surgenor, D. M.	82
Spiro, M. J.	83	Sutin, G. J.	135
Spiro, R. G.	83	Swanson, L. T.	208
Spodick, D. H.	108	Swartz, M. N.	103
Sprague, H. B.	98	Sweet, R. H.	145
Stahl, N. M.	148	Sweet, W. H.	145
Stahler, S.	140	Sweetser, E. H.	120
Stalvey, H. D.	120	Sy, V. S.	151
Stamey, C. C.	135	Szulman, A. E.	89
Stanbury, J. B.	98	Taft, E. B.	88, 108
Stancer, S. L.	135	Taft, G. H.	134
Standar, A. V.	120	Talbot, H. S.	148
Standish, C. T.	120	Talbot, N. B.	131
Stanton, A. H.	115	Talkov, R. H.	103
*Stare, F. J.	83	Talland, G. A.	116
Starkey, G. W. B.	148	Tansey, J. L.	109
Starr, A.	148	Tarasiejska, Z.	107
Starr, A. M.	149	Tartakoff, H. H.	118
Stauffer, R. E.	120	Taylor, F. H. L.	99
Stearns, N. S.	104	Taylor, G. W.	146
Stearns, S.	103	Taymor, M. J.	155
Stein, H. J.	103	Tefft, R. C., Jr.	133
Steinberg, A. G.	208	Tenney, B., Jr.	138

* SPH Faculty.

THE MEDICAL SCHOOL

	PAGE		PAGE
Terry, M. L.	134	* Van Itallie, T. B.	108
Thiers, R. E.	101	Van Leeuwen, M. J.	203, 204
Thiry, S. G.	151	van't Hoff, R. A.	136
Thomas, L. P.	151	van't Hoff, W.	107
Thompson, G. E.	204	Vawter, G. F.	90
Thompson, T. E.	82	Veazey, P. M.	136
Thorn, G. W.	96	Vecchiolla, J. A.	136
Thorndike, A.	146	Vickery, A. L., Jr.	88
Thrower, W. B.	151	Victor, M.	116
Tibbets, D. M.	71	Villarama, E.	83
Tiley, R. F.	113	Villee, C. A., Jr.	15, 82, 140
Timberlake, W. H.	116	Villegas, R.	80
Timm, A. B., Jr.	113	Vorenberg, J.	121
Timmerman, R. J.	107	Wacker, W. E. C.	107
Toch, R.	133	Waddell, W. R.	146
Todd, D. P.	146	Wahren, E. W. R.	121
Toll, K. van S.	120	Wahren, K. O. W.	121
Tolman, M. M.	113	Waksman, B. H.	85
Tosayanonda, S.	95	Waldfogel, S.	116
Travis, D. M.	107	Walker, L. M.	95
Trevett, L. D.	116	Walker, P. H.	149
Trieger, M.	205	Walker, W. F.	151
Troen, P.	103	Wallace, J.	134
Trott, A. W.	158	Wallace, J. H.	85
Trotter, R. R.	109	Wallach, D. F. H.	107
Tucker, A. W., Jr.	140, 156	Wallach, H. D.	123
Tucker, D. A.	13, 14, 103	Wallach, S.	108
Tullis, James L.	99	Walter, C. W.	145
Tullis, John L.	90	Walter, M. M., Jr.	123
Turner, John, 2d	140	Walters, D. H.	80
Turtle, W. J.	133	Waltz, A. G.	123
Tuthill, J. W. G.	133	Wang, C-C.	130
Tyler, H. R.	120	Ward, J. R.	108
Tyler, J. M.	104	Warren, R.	145
Uhle, F. C.	93	Warren, S.	88
Ulfelder, H.	155	Warthin, T. A.	97
Ulin, R.	158	Watkins, A. L.	98
Umansky, R.	142	Watkins, E., Jr.	148
Umbarger, H. E.	85	Watson, B. K.	85
Uzman, B. B. G.	88	Watson, P. L.	120
Uzman, L. L.	116	Watts, G. T.	151
Valenstein, A. F.	118	Watzke, R. C.	129
Vallee, B. L.	98	Weber, M. M.	86
Vandam, L. D.	145	Webster, E. W.	130
Vander, J. B.	107	Webster, H. D.	123
Vanderveen, J. L.	148	Webster, T. G.	123
VanDyke, W.	134	Weekes, D. J.	160

* SPH Faculty.

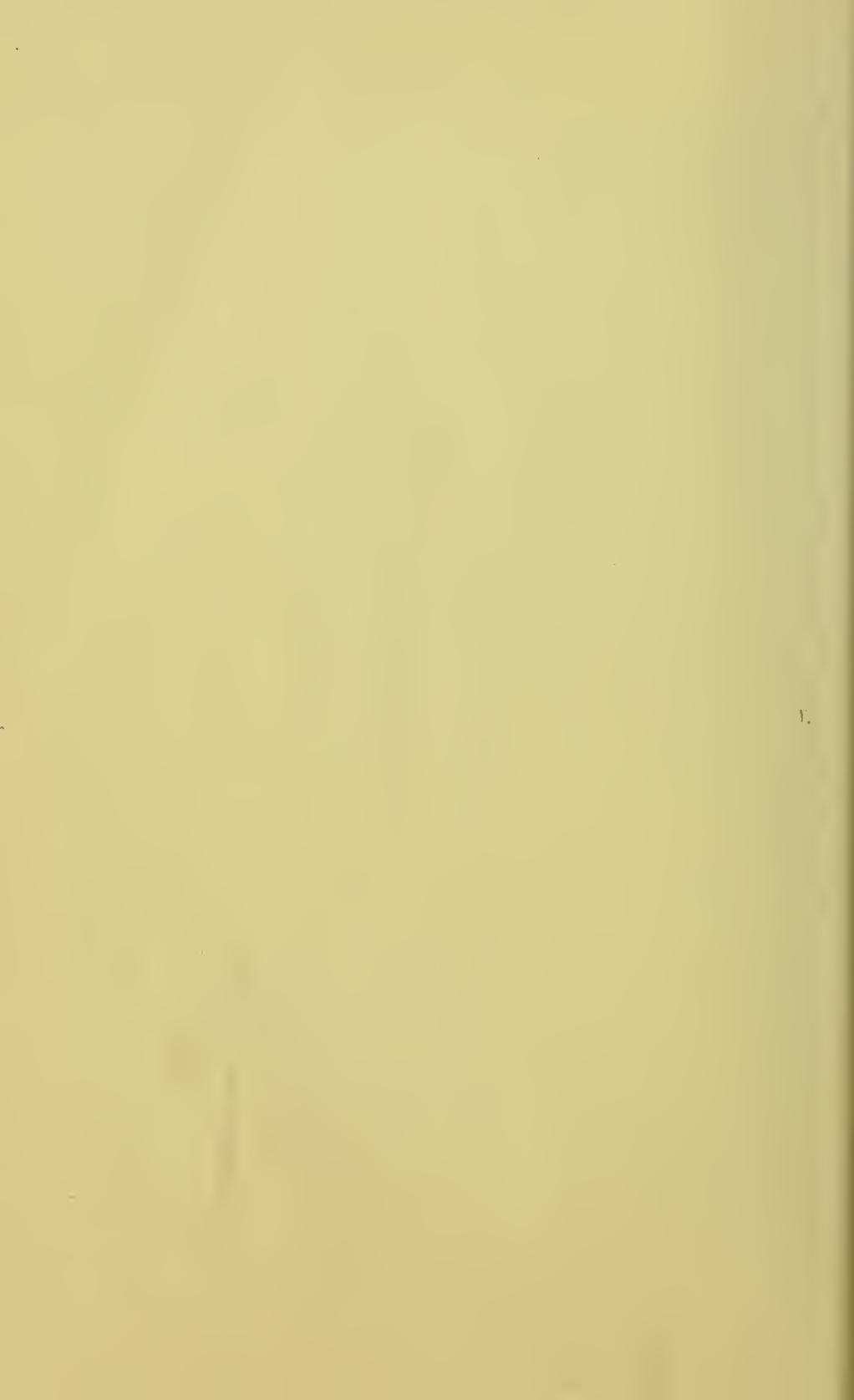
TEACHING STAFF

	PAGE		PAGE
Wegner, C. J.	90	Winer, B. M.	103
Wegner, W. R.	146	Wingate, J. H.	120
Wehrmuller, J. O.	108	Winter, W. D., Jr.	133
Weille, F. L.	160	Wislocki, G. B.	76
Weinberger, J. L.	118	Wittenborg, M. H.	129
Weiner, A. E.	140	Wolf, R. C.	209
Weiner, L.	121	Wolfe, S. J.	108
Weiner, N.	93	Wolff, D.	93
Weinstein, L.	132	Wolff, L.	98
Weisberger, D.	205, 206, 209	Wolff, P. H.	120
Weisman, A. D.	116	Wolff, R.	104
Weiss, L. P.	76	Woodruff, L. M.	148
Welch, C. E.	147	Woods, A. C.	127
Welch, K. J.	149	Woodward, G. H.	120
*Weller, T. H.	92	Wool, M. L.	120
Wellock, W. D.	210	*Worcester, J.	143
Wells, H.	208	Wulsin, H. E.	123
Wells, J. C., Jr.	103	Wyman, S. M.	129
Wells, L. D.	120	Wyshak, G. H.	205
Wells, R. E.	99	Yaffe, S. J.	136
Wermer, H.	118	Yakovlev, P. I.	30, 115
Wermer, O. S.	103	Yamazaki, E.	156
Wessler, S.	99	Yao, W. H.	151
*Wesselhoeft, C.	143	Yates, F. E.	80
Wexler, D.	120	Yen, P. K.	203
Whaley, R. D.	108	Yerganian, G.	89
Wheeler, E. O.	103	Young, E.	134
Wheeler, H. J.	134	Young, J. V. W.	108
Wheelock, F. C., Jr.	149	Young, W. C.	76
Whitcomb, J. H.	136	Younge, P. A.	155
White, J. C.	145	Yuan, C.	93
White, M. F.	148	Zacharias, A.	151
Whitfield, T. J.	136	Zacharias, L. R.	127
Wiegand, B. D.	104	Zaikis, J. P., Jr.	156
Wilber, S. A.	149	Zamcheck, N.	103
Wilder, C. E.	108	Zamecnik, P. C.	15, 96
Wilkins, E. W., Jr.	149	Zaudy, E. C.	133
Wilkins, G. F.	148	Zeller, J. W.	103
Willer, L. H.	120	Zettas, P.	159
Willett, N. P.	210	Zetzel, E. R.	116
Williams, B., Jr.	104	Zetzel, L.	99
Williams, C.	103	Ziai, M.	108
Williams, J. A.	149	Zileli, M. S.	108
Williams, R. J. P.	100	Zinberg, N. E.	118
Wilson, J.	120	Zoger, S.	136
Windhager, E. E.	108	Zoll, P. M.	98
Winegrad, A. I.	108		

* SPH Faculty.











14-34

JUN 1965

WESBY

